
**Columbia
University
Bulletin**

The Faculty of Medicine
Department of
Rehabilitation Medicine
**Programs in
Physical Therapy and
Occupational Therapy
1988-1989**



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Serial
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1988-1989

To Communicate with the Programs

ADDRESS INQUIRIES TO:

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College of Physicians and Surgeons
630 West 168th Street
New York, N.Y. 10032

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Contents

- 3 Administration and Faculty
- 7 Columbia-Presbyterian
Medical Center
History, 7
- 10 Program in Physical Therapy
Admission Requirements, 11
Degree Requirements, 13
- 14 Program of Study—Physical
Therapy
Outline of the Program, 20
*Hospitals and Agencies Affiliated
for Clinical Education, 22*
- 27 Programs in Occupational
Therapy
*Master of Science Degree
(Professional Level), 29*
*Master of Science Degree
(Post-Professional Level) in
Occupational Therapy:
Administration or Education,
30*
*Master of Science in Occupational
Therapy/Master of Public
Health, 32*
Admission Procedure, 34
- 38 Programs of Study—
Occupational Therapy
*Master of Science Degree
(Professional) Program, 38*
*Master of Science Degree
(Post-Professional) Programs,
42*
*Master of Science and Master of
Public Health (Joint Degree)
Programs, 46*
Outline of the Programs, 50
*Hospitals and Agencies Affiliated
for Field Work Education, 56*
- 63 Student Life
- 66 Registration and Expenses
Registration, 66
Auditing Courses, 67
Grades and Credit, 67
Fees, 69
*Application or Renewal of
Application for a Degree, 72*
Requests for Transcripts, 72
Estimated Expenses, 72
Dining Services, 72
Housing, 73
Financial Aid, 74
Types of Assistance, 75
Student Employment, 79
- 80 Official Regulations
- 83 Protection Against Sexual
Harassment
- 87 Academic Calendar

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Columbia-Presbyterian Medical Center

Columbia-Presbyterian Medical Center, which combines a great hospital and a great university, has set the standards for biomedical research, patient care, and education of health professionals. With a view of the George Washington Bridge, Columbia-Presbyterian, the first medical center in the country, is located in northern Manhattan, at the Health Sciences campus. The Medical Center comprises about twenty acres, extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive; it is easily accessible from all parts of the city. The Health Sciences campus houses the divisions and institutes of the Columbia University Faculty of Medicine, including the College of Physicians and Surgeons, in which the Program in Physical Therapy and the Programs in Occupational Therapy are located; the School of Nursing; the School of Public Health; the Columbia University School of Dental and Oral Surgery, the Presbyterian Hospital and its subdivisions; and the New York State Psychiatric Institute.

This is a time of dramatic growth and change at the Health Sciences campus. The Medical Center is now embarking on the most extensive building program in the history of modern health care. The Presbyterian Hospital recently began working on a \$500 million project that will include a new 745-bed acute-care hospital and a 300-bed community hospital at Columbia's Baker Field. As part of a long-term commitment to new research facilities, Columbia University will shortly launch the "Audubon Project," which will be New York's first bio-industrial research park.

HISTORY

The Program in Physical Therapy and Programs in Occupational Therapy share a similar history. Both were established in the early 1940s, a time with powerful implications for both professions. World War II accentuated the tremendous need for occupational therapists and physical therapists, and the polio epidemics of the 1930s and 1940s further underscored the effectiveness of the two professions. During the first four years, the programs were housed at Teachers College on the Columbia Morning-side campus; in 1945, they were moved to the Health Sciences campus as part of the Faculty of Medicine. From 1945 through 1968, the Programs in Occupational Therapy comprised a baccalaureate program and a post-baccalaureate professional certificate program. In 1968, through a restructuring of the curriculum, the present professional level Master of Science Degree Program in Occupational Therapy was established on the foundation of the certificate program; in 1977, the baccalaureate program was phased out. A curriculum development grant in 1981 supported the initiation of the post-professional level programs leading to the Master of Science degree in Occupational Therapy Administration or Occupational Therapy Education, for therapists already certified at the baccalaureate level. Over 1,100 graduates constitute the alumni of these programs.

Baccalaureate and professional certificate programs were also offered in physical therapy from 1945 through the late 1970s. Changing trends in practice and concurrent curriculum developments resulted in the establishment of the present professional

level Master of Science Program in 1980. To date, 1,360 students have graduated from the Program in Physical Therapy.

Students of occupational and physical therapy traditionally pursue several of their health professions

courses together while also enrolling in distinct professional courses. Interdisciplinary practice occurs throughout students' field and clinical experience in affiliated facilities and agencies.



Program in Physical Therapy

Physical therapy is the professional health science and service that contributes to the comprehensive care of physically disabled people. It is involved with the preservation of functional capacity, restoration of function, and the prevention of disability due to disease, injury, or loss of limb.

Physical therapy includes the analysis, administration, and interpretation of selected test procedures used to determine the need for physical therapy intervention. Among the specialized measures used to prevent or ameliorate physical disability are the therapeutic properties of electricity, sound, heat, cold, water, and compression, as well as the use of exercise with or without devices, joint mobilization, mechanical stimulation, massage, training in locomotion, and other functional activities.

The physical therapist collaborates with physicians, nurses, social workers, occupational therapists, psychologists, and others, and plays an important role in helping patients attain the highest possible degree of physical, mental, social, and occupational independence. Practice may encompass treatment of individual patients, planning and administering programs for groups of patients, or cooperative planning for community health programs. The physical therapist may work in hospitals, clinics, children's centers, private offices, rehabilitation centers, public schools, governmental or armed services, community health agencies, colleges or universities, or may be self-employed.

The physical therapist may assume responsibilities in the administration of a physical therapy department and the supervision of other physical therapists and supportive personnel, academic or clinical teaching, research, consultation services to agencies and members of other health professions,

coordination of physical therapy services with those of other professions, or administration in professional and supportive levels of education in physical therapy. The areas of service, research, and education assure physical therapists an interesting selection of positions in this country and in many other parts of the world.

The Columbia philosophy of physical therapy education is based on the belief that health care is the right of all. Further, persons under care as well as professionals who provide that care should be viewed as human beings with unique characteristics and behaviors. Thus a recurrent theme in the curriculum is that an individual's uniqueness depends on past experiences and many interactions in a complex society. Health care must consider the total needs of an individual, including physical and mental health, the present physical, family, or community environment, and a person's total physical, psychological, social, and cultural development.

The student in the program of study at Columbia is expected to have a broad background in general education, including knowledge of the fundamental principles of the social, biological, and physical sciences. This program is based upon work done for the bachelor's degree at an accredited college or university, including the courses required for admission. The professional curriculum is designed to be flexible with alternate learning approaches in recognition of varied abilities, interests, and learning styles of students. The program is also designed to provide a comprehensive foundation of basic principles in the art and science of physical therapy, and students have the opportunity to pursue a particular aspect of physical therapy in depth. The concept that learning is a lifelong process pervades

the educational program. The overall aim is to prepare graduates who are self-directed, self-accountable generalists possessing problem-solving skills, and who can perform in any of a variety of settings. Physical therapists with these capabilities are prepared to develop specialty skills, to contribute to the leadership and growth of physical therapy, and to advance the quality of health care through clinical research and collaboration with other professionals.

The Master of Science degree is awarded upon completion of the program (academic study and clinical experience) as outlined. The program described in this bulletin is accredited by the American Physical Therapy Association and is registered by the Department of Education of the State of New York. Graduates are eligible to take state licensure examinations in physical therapy held at intervals during the year. All states require a license or registration of physical therapists. New York State examinations are usually given in July and November of each year. Information regarding examination schedules in other states may be obtained by writing the Division of Licensing in each state.

ADMISSION REQUIREMENTS

Students are admitted only in September. Applications for admission are accepted from qualified men and women and should be received no later than January 31 of the year the applicant wishes to begin the program. Applications are accepted after that date subject to availability of places in the entering class. Enrollment is limited because of limitation in space and facilities. Specific requirements for admission to the program are as follows.

M.S. Degree Program

All applicants must be graduates of an approved college with a Bachelor

of Science or Bachelor of Arts degree in any major. The academic work must include (a) 12 semester credits in biological sciences, including 3 semester credits in anatomy and 3 semester credits in physiology; (b) 14 semester credits in physical sciences, including a year in general chemistry (organic chemistry may be included) and a year in introductory physics that deals with heat, light, electricity, mechanics, etc.; (c) 12 semester credits in humanities, including 6 in English (one course must be in writing); (d) 3 semester credits in social studies, consisting of a basic course in sociology; (e) 9 semester credits in psychology, including a course in abnormal psychology; (f) 2 semester credits in statistics. In addition, all students must have a course in first aid including cardiopulmonary resuscitation (college, Red Cross, or the equivalent). Grades in specific prerequisite courses must be C or better to satisfy the admission requirement. Grades below C are not acceptable. The student may have concentrated in any area but evidence of a balanced education is preferred.

An applicant must submit results of the Graduate Record Examination. In compliance with recent legislation in New York State, only a limited number of testing dates a year are available in this state and reportable to state institutions. Applicants are advised to obtain the schedule from the Educational Testing Service, Princeton, N.J. 08540, and to apply to take the first possible test. The institution number to use for tests is 2137, *Department 0619*.

Evidence of having explored physical therapy as a career is important. A work or volunteer experience of a minimum of forty (40) hours in at least two different physical therapy settings is required.

Admission Procedure

Application forms may be obtained by writing to the Program in Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, and should be filed by January 31 of the year in which the student wishes to begin his or her studies. The completed form must be accompanied by the application fee (see *Registration and Expenses—Fees*). This fee is not returnable and is not credited toward tuition. Transcripts of all post-secondary education are needed as well as three form letters of reference. If possible, two letters should be from professors of the department in which the student did or is doing major study. The third letter, if possible, should be from someone who has supervised the applicant's work (paid or volunteer) in a health facility, camp, school, etc.

If a personal interview is required by the Committee on Admissions, a notification will be sent to the applicant.

Acceptance Fee

An applicant who has been accepted must notify the Director that he or she intends to matriculate and must accompany the notification with a check or money order for \$100, payable to Columbia University, no later than two weeks after receiving notice of the acceptance. The acceptance fee is applied to the applicant's tuition upon registration in the class to which the applicant has been admitted. If the applicant does not register in that class, the acceptance fee will be retained by the University unless the University for any reason cancels the acceptance.

Health Examination and Liability Insurance

Following acceptance into the program, all students are requested to have a preregistration physical examination and to return the Health Certificate to the Program Director for filing in the Student Health Office. The physical therapy program beginning in the first term and extending until graduation is a combined academic and experiential program. Institutions in which clinical assignments are made require a certificate of good health before permitting students to work with patients/clients. In addition, they require that all students carry professional and personal liability insurance. Following registration, forms meeting this requirement are made available.

International Students

Students from other countries are urged to apply for admission one year in advance of the time they wish to begin their studies. The Physical Therapy Admissions Committee is guided by an evaluation of education credentials by the International Student Office to determine the equivalency of an applicant's educational background in terms of admission requirements. The applicant must fulfill the usual admission requirements, since all students are considered for admission on the same basis.

The staff of the International Student Office, 208 Lewisohn, provides advice and counseling to international students on such matters as University admission, advanced standing, English proficiency examinations, academic placement, personal and financial problems, and regulations of the United States Im-

migration and Naturalization Service (visas, extensions of stay, work permission, temporary departure from the United States, transfer from Columbia to another school, termination of study). Information about the various international student clubs at Columbia, opportunities to attend conferences, travel in the United States, and participation in community and cultural activities may be obtained from this office. Maps of New York City and discount tickets to concerts and plays are available.

Combined B.S./M.S. Program

A combined B.S./M.S. articulation program has been developed with the Columbia University School of Gen-

eral Studies. This program allows students to complete three years of undergraduate work in the School of General Studies and to combine the fourth year of baccalaureate education with the first year in the master of science degree program. Students can thereby pursue the usual six-year sequence in five years at a considerable savings of time and cost.

DEGREE REQUIREMENTS

1. The student must satisfactorily fulfill the requirements of the program (60 points minimum) within three years.
2. All clinical requirements must be completed.
3. A master's thesis is required.

Program of Study

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary. See *Key to Course Listings*.

MASTER OF SCIENCE DEGREE PROGRAM

The average student can expect to complete this program in two academic years and an intervening summer.

The program is planned to enable students to perform skillfully those activities deemed necessary to enter the field of physical therapy. Upon graduation, students will understand the problem-solving approach to health care and, based on these problem solving skills, they can expect to be able to:

1. determine the need and appropriateness of physical therapy intervention for any individual through the process of evaluation by (a) assessing an individual's functional status within the environment, (b) assessing some functions of the body systems, including neuromusculoskeletal, cardiovascular, pulmonary, and integumentary, (c) using selected evaluative tests in order to identify existing and potential physical limitations to functioning within the individual's environment, (d) recording the interpreting results of selected evaluative tests with special consideration of the individual's medical, social, cultural, economic, and psychological status;
2. establish practical and measurable goals with that individual, using knowledge of (a) normal function, (b) pathological processes, (c) the individual's lifestyle and expectations;
3. develop a goal-directed plan (a) with judicious use of available resources, (b) in collaboration with individuals and their families and other

health workers, (c) with consideration of all safety measures;

4. implement, document, and re-evaluate the goal-directed plan either directly or by delegating appropriate activities or by instructing and supervising other health workers or families in order to (a) maintain and restore strength, endurance, coordination, relaxation, and range of motion, (b) promote healing, (c) relieve pain, (d) improve functional independence;
5. implement a specific plan of care which includes the safe application of (a) physical agents, (b) therapeutic exercises and procedures, (c) developmental activities, (d) functional activities, (e) assistive/adaptive devices/equipment, (f) therapeutic equipment, (g) external dressings and supports;
6. organize and operate a physical therapy service by applying knowledge of administrative and managerial principles;
7. participate in self-evaluation, peer-review, and continuing education for continued self-growth and continued growth of the profession;
8. use communication skills appropriately in interpersonal and group situations in order to assume the role of clinician, educator, administrator, and consultant effectively;
9. apply the basic principles of scientific method to (a) read and interpret literature, (b) participate in clinical research activities, (c) critically analyze new concepts and findings provided by others;
10. identify issues and problems in health care delivery systems and propose alternative solutions;
11. identify and recommend solutions for architectural barriers;
12. participate in health promotion education.

The curriculum is organized around five centers of focus: professional concepts, body systems, therapeutic intervention, teaching strategies, and research. These elements serve as threads for planning instruction and learning activities for students.

The first year of the program and the intervening Summer Session are directed toward development of the clinician role. The second-year activities are expanded to include more advanced clinical skills and an emphasis on broader aspects of health administration, supervision, teaching, and research. Clinical experience, or field work, is integrated with the total program.

Key to Course Listings

Each course number consists of capital letters followed by four digits and the term designation.

The capital letters indicate the curriculum for whose students the course is primarily offered:

- H.P. Health Professions (conjoint courses for students of Physical Therapy and Occupational Therapy)
- O.T. Occupational Therapy
- P.T. Physical Therapy

The level of the course is represented by *the first digit*:

- 6 Graduate course
- 8 Graduate course, advanced

The subject area of the course is represented by *the second digit*:

- 1 Biological sciences
- 2 Behavioral sciences
- 3 Medical conditions
- 4 Treatment modalities
- 5 Professional concepts and treatment
- 6 Clinical experience

TERM DESIGNATIONS: X, Y, AND Z

An *x* following the course number indicates that the course meets in the autumn term; a *y* indicates the spring term; and a *z* indicates the Summer Session.

Courses of Instruction

H.P.M6101x

Human anatomy

Professors Noback and April. 3 points.

Prerequisite: physical therapy program admission requirements and the instructor's permission. Anatomy of the human body, with emphasis on those features that are most important for muscular activity. Lectures and laboratory work, the latter based on prepared dissection of the human body.

H.P.M6103x

Human nervous system

Professor Noback. 2 points.

Prerequisite: physical therapy program admission requirements and the instructor's permission. Anatomy of the human nervous system, including the structural unit, the cerebrospinal system, and the autonomic system. Attention to the gross divisions of the brain, spinal cord, and peripheral nerves, with emphasis on the controls affecting voluntary motion.

H.P.M6220x

Normal human growth and development

Professors Cook, Jones, and Germain. 2 points.

Prerequisite: physical therapy program admission requirements and the instructor's permission. Individual development from conception to death, with exploration of the context of each life stage, its opportunities, problems, and emotions. Attention given to the interrelationship of individual development with significant evolving institutions such as the family and the culture. This interdisciplinary course is designed to utilize each student's independent learning style. Students may meet course objectives through readings, use of videotape, and observational experiences. Required seminars allow for interchange of ideas.

P.T.M6300y**Psychosocial aspects of health, illness, and disability***Faculty. 2 points.*

The principles and concepts involved in understanding adaptive and maladaptive coping mechanisms of normal life events. Examines the psychosocial aspects of physical health, disability, and chronic disease with emphasis on cultural, social, sexual, and pathology-related influences. Consideration is given to the role of the physical therapist in promoting psychosocial function and remediating dysfunction from a comprehensive rehabilitation perspective.

H.P.M6324y**Pathology in internal medicine***Faculty. 2 points.*

Prerequisite: the instructor's permission. A systems approach to the study of pathophysiology related to internal medicine. Consideration is given to selected disorders frequently seen by physical and occupational therapists that includes a survey of etiology, pathology, symptomatology, management, and prognosis.

H.P.M6325y**Neurological and orthopedic disorders***Faculty. 2 points.*

Prerequisite: the instructor's permission. Emphasizes management of the response of the human body to disease or injury involving the nervous and skeletal systems. Implications for physical and occupational therapy intervention are discussed.

P.T.M6507x**Analysis of human movement***Professor Hecox. 3 points.*

Prerequisite: physical therapy program admission requirements and the instructor's permission. A contemporary approach to kinesiology, requiring students to distinguish and integrate many subdivisions within the discipline, including (1) structural and functional kinesiology dealing with the form and function of the body, (2) biomechanics, (3) correlations of these with basic neurophysiological principles, and (4) psychological kinesiology, studying the mutuality of movement and meaning, including topics such as self-image, personality, and motivation. Major emphasis on the analysis of normal movement, including implications of its relevance to physical therapy.

P.T.M6508x**Principles of measurement and therapeutic exercise***Professor Schmitz. 3 points.*

Prerequisite: physical therapy program admission requirements and the instructor's permission. Analysis, administration, and interpretation of selected test procedures used in patient assessment to determine the need for physical therapy intervention. Major emphasis also on the principles of therapeutic exercise used by physical therapists to improve motor function. Problem-solving approach to selection and application of appropriate procedures, and assessment and modification of treatment programs.

P.T.M6509y**Applied clinical physiology***Professor Jones and associates. 2 points.*

Prerequisite: general physiology, P.T.M6508, and the instructor's permission. A scientific inquiry into physiological adaptations of various body systems when changes occur in physical activity or environment or when pathological changes threaten to disturb regulation. Emphasis on relationship to treatment procedures in physical therapy.

P.T.M6510y**Neurophysiological analysis of movement***Professor Jones. 2 points.*

Prerequisite: P.T.M6507, H.P.M6220 or the equivalent, H.P.M6103, and the instructor's permission. Neurophysiological basis of movement, normal growth, and development as a means of evaluation. Application of neurophysiological principles of human motion. Analysis of current theories and methods used in developmental disabilities. Course is a basis for applying a problem-solving approach to neurological disabilities.

ELECTIVES

At least 6 elective points are needed to fulfill the 60 point degree requirement. Electives may be taken in the intervening summer between the first and second years or during the autumn or spring term of the second year. The student should consult the bulletins of the School of Public Health, School of Social Work, Graduate School of Arts and Sciences, Business School, and Teachers College, as well as the offerings in this bulletin.

P.T.M6511-M6512x,y,z**Practicum in physical therapy***Professor Teschendorf. 2 or 3 points.*

Prerequisite: the instructor's permission. Individually designed learning experience in a variety of content areas. Student may elect to expand knowledge base in clinical skills or administration, teaching, or research.

P.T.M6513x or y**Gerontology in clinical practice***Professor Teschendorf. 1 point.*

Prerequisite: general physiology and the instructor's permission. Physiologic and structural changes in aging are discussed in light of their association with mobility and functional capacity of the elderly client. Special attention is given to the sensory system and needs for environmental/treatment modification. Family involvement, multidisciplinary consultation, and community resource/network are emphasized throughout the course.

P.T.M6514x or y**Cardiopulmonary physical therapy***Faculty and guests. 1 point.*

Prerequisite: *P.T.M6509*. Assessment of cardiopulmonary conditions, clinical decision making, and treatment interventions. Pulmonary function testing, pathologic conditions, and implications for exercise programs as applied to physical therapy.

P.T.M6515x or y**Sports physical therapy***Mr. Phillips. 1 point.*

Prerequisite: *P.T.M6536*. The pathomechanics of acute and chronic athletic injuries of major joints and structures. Presents basic and intermediate orthopedic assessment skills of various athletic injuries, musculoskeletal problems requiring physical therapy intervention, and appropriate treatment programs.

P.T.M6516x or y**Wholistic approaches to therapeutic exercise, part I***Professor Hecox. 1 point.*

Prerequisite: *P.T.M6507*. An introduction to various methods of supplementing traditional therapeutic exercise approaches through mind/body techniques designed to enhance movement capabilities. Classes include participation in activities for self knowledge and practical application to patient treatment.

P.T.M6517x or y**Wholistic approaches to therapeutic exercise, part II***Professor Hecox. 1 point.*

Prerequisite: *P.T.M6507*. A dynamic approach toward an understanding of the effects of space, both internal and external, and of the qualities of movement experiences analyzed with kinesiological principles and applied to therapeutic situations.

P.T.M6532x**Physical therapy procedures***Mrs. Savatsky and Professor Hecox. 3 points.*

Prerequisite: physical therapy program admission requirements and the instructor's permission. An indoctrination of the professional into the roles of the physical therapist as a clinician, teacher, supervisor, and researcher. Introduction of basic concepts and initiation into basic procedures of physical therapy to serve as a foundation for further growth.

P.T.M6533y**Physical agents***Professor Hecox. 3 points.*

Prerequisite: *P.T.M6532*, *P.T.M6508*, *P.T.M6508*, and the instructor's permission. Rationale for the selection of specific physical agents and techniques in the therapeutic uses of electricity, sound, heat, cold, compression, and water and other liquids. Physical and physiological principles, environmental factors, and clinical considerations included.

P.T.M6534y**Physical rehabilitation: assessment and treatment***Professor Schmitz. 3 points.*

Prerequisite: *P.T.M6532*, *P.T.M6508*, and instructor's permission. Assessment and management of physical disabilities from a rehabilitation perspective. Topics include biomechanics of pathological gait, gait training, and selection and use of assistive devices for patient mobility. Major consideration also given to assessment and treatment of patients with the following disabilities: amputations, spinal cord injury, burns, and chronic progressive neurologic diseases. Additional topics covered include prosthetics, orthotics, and the treatment planning process.

P.T.M6535x**Management of neurological disabilities***Professor Jones and associates. 4 points.*

Prerequisite: *P.T.M6532, P.T.M6508, P.T.M6601, P.T.M6510, H.P.M6324*, and the instructor's permission. Application of physical therapy evaluations and procedures to children and adults with central nervous system disorders. Physical therapist specialists present principles of patient management. Emphasis is on improving skill in clinical decision-making when planning programs and when using neuro-physiological principles of treatment.

P.T.M6536x**Management of orthopedic disabilities***Professor Schmitz and Mr. Gargiulo. 4 points.*

Prerequisite: *P.T.M6507, P.T.M6508, P.T.M6601, P.T.M6532, H.P.M6324*, and the instructor's permission. Physical therapy evaluation and treatment of common musculoskeletal problems. Topics related to disease, dysfunction, and injury of the musculoskeletal system are addressed. Strong emphasis on rationale and techniques of joint mobilization. Problem-solving approach to selection and application of appropriate treatment procedures, and evaluation and modification of treatment programs.

P.T.M6537x**Health issues in physical therapy management***Professor Teschendorf. 2 points.*

Prerequisite: *P.T.M6601*. Orients students to health care services, professional issues, and the practice of physical therapy within various organizations and communities. Students examine administration via the management continuum: planning, organization, supervision, control, and evaluation.

P.T.M6539x**Teaching strategies***Faculty and guests. 1 point.*

A seminar on teaching theory and methods. Students explore a variety of presentation methods; use of media and design of educational strategies for all age groups. Clinical application of educational materials are discussed.

Clinical seminar*Professor Teschendorf and clinical faculty. 0 points.*

Seminar provides discussion for clinical issues and current methods in the clinical education process and clinical problem solving.

P.T.M6601z***Clinical experience, I***Professor Teschendorf and clinical faculty. 0 points.*

Prerequisite: good academic standing and demonstrated satisfactory completion of required professional courses. A full-time assignment in a clinical setting for a minimum of eight weeks, after which the student should demonstrate proficiency in the competencies expected from having completed the first year of the curriculum.

P.T.M6602x**Clinical experience, II***Professor Teschendorf and clinical faculty. 2 points.*

Prerequisite: *P.T.M6601*. A continuation of *P.T.M6601—Clinical experience, I*, supplementing the student's functioning in different environments; integration of activities and skills developed in the concurrent courses; opportunity to expand into specialty settings.

P.T.M6603y***Clinical experience, III***Professor Teschendorf and clinical faculty. 3 points.*

Prerequisite: *P.T.M6602*. A continuation of *P.T.M6602—Clinical experience, II*. Planned experience in overall delivery of physical therapy services with application to special area of interest. Opportunities are provided to work with a specific age group; special disability group; to assist with administration, teaching, supervision, or research in a wide variety of environments.

*Students are considered to be on full-time programs in the Summer Session between the first and second years and also in the Second Year: Spring Term. Courses *P.T.M6601—Clinical experience, I* and *P.T.M6603—Clinical experience, III* require full-time field experience and *P.T.M8503—Master's thesis* requires full-time educational activity to complete the master's thesis.

H.P.M8200x,y,z[†]**Research advisement***Faculty advisers. 0 points.*

Students who require continued advisement beyond the one-term *P.T.M8502—Thesis development* or *P.T.M8503—Master's thesis* must register for *Research advisement* each term until the proposal or the thesis is completed.

P.T.M8500x**Scientific inquiry, I***Professor Day. 2 points.*

Prerequisite: an introductory statistics course and the instructor's permission. The first of a two-term offering (*P.T.M8501* is offered in the spring term). Orientation to the philosophy and principles of scientific inquiry and the role of research in physical therapy. Emphasis on conceptual understanding of research design, statistical principles, and the use of computers in data analysis.

P.T.M8501y**Scientific inquiry, II***Professor Day. 1 point.*

Prerequisite: *P.T.M8500* and the instructor's permission. Provides the student with the opportunity to read the medical literature critically, grasp the uncertainty that exists in medical research, and draw conclusions regarding the integration of research with the practice of physical therapy. Information on the systematic location and retrieval of scientific information provided in preparation for the student's research proposal. Emphasis on the critical analysis of research designs in the health sciences.

P.T.M8502x**Thesis development***Professor Day. 2 points.*

Prerequisite: *P.T.M8501* and the instructor's permission. Topics include research designs, computer-assisted data analysis, and techniques of scientific writing. A research proposal, approved by the Master's Committee, must be completed.

P.T.M8503y**Master's thesis***Professor Day. 1 point.*

Prerequisite: *P.T.M8502* and the instructor's permission. Seminar topics include computer-based statistical tests of hypotheses; data presentation; and interpretation. Completion and presentation of a research thesis that meets the standards set forth by the Master's Committee is required.

[†]Registration for continued advisement will be at a tuition charge of 1 point.

Outline of the Program

M.S. Degree Program

FIRST YEAR		FIRST YEAR	
AUTUMN TERM	POINTS	SPRING TERM	POINTS
H.P.M6101: Human anatomy	3	P.T.M6300: Psychosocial aspects of health, illness, and disability	2
H.P.M6103: Anatomy of the nervous system	2	H.P.M6324: Pathology in internal medicine	2
H.P.M6220: Normal human growth and development	2	H.P.M6325: Neurological and orthopedic disorders	2
P.T.M6507: Analysis of human movement	3	P.T.M6509: Applied clinical physiology	2
P.T.M6508: Principles of measurements and therapeutic exercise	3	P.T.M6510: Neurophysiological analysis of movement	2
P.T.M6532: Physical therapy procedures	3	P.T.M6533: Physical agents	3
P.T.M8500: Scientific inquiry, I	2	P.T.M6534: Physical rehabilitation: assessment and treatment	3
Total points	18	P.T.M8501: Scientific inquiry, II	1
SUMMER SESSION	POINTS	Total points	17
P.T.M6601: Clinical experience, I	0		
SECOND YEAR		SECOND YEAR	
AUTUMN TERM	POINTS	SPRING TERM	POINTS
P.T.M6535: Management of neurological disabilities	4	P.T.M6603: Clinical experience, III	3
P.T.M6536: Management of orthopedic disabilities	4	P.T.M8503: Master's thesis	1
P.T.M6537: Health issues in P.T. management	2	Total points	4
P.T.M6539: Teaching strategies	1	Electives	6
P.T.M6602: Clinical experience, II	2	Total Program Points	60
P.T.M8502: Thesis development	2		
Total points	15		

Electives may be taken in the intervening summer between the first and second years or during the autumn or spring term of the second year. A minimum of six (6) elective points is required.



Hospitals and Agencies Affiliated for Clinical Education

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Chief Physical Therapist

Barbara Murphy
Clinical Coordinator

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Joan Malden
Supervisor

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Clinical Coordinator

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Adele Rubenstein
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Betty Landis
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Marion Marx
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Programs in Occupational Therapy

Occupational therapy is a health profession that uses goal-directed activities, appropriate to each person's age and social role, to restore, develop, or maintain the ability for independent, satisfying living. Occupational therapists evaluate, treat, and provide consultation to individuals whose abilities to cope with the tasks of everyday living are threatened or impaired by physical illness or injury, psychological and social disability, or developmental deficits.

As members of a health team, occupational therapists provide special services that include teaching daily living skills and developing play skills, leisure-time use, and prevocational capacities; fostering the development of skills needed for integration and coordination of sensation, perception, and motor activity; designing, fabricating, and applying selected splints or adaptive equipment; using individually directed programs of exercises and activities to enhance functional performance; and adapting environments when necessary. These services may be provided individually, in groups, or through social systems. Depending on the setting and each patient's or client's needs, occupational therapists work in consultation with physicians, physical therapists, psychologists, social workers, speech therapists, vocational counselors, and teachers. The employment outlook for the next decade is excellent: occupational therapy is among the top employment fields for the 1990s. There is currently a tremendous need for occupational therapists to work with clients of all ages in hospitals, community health centers, rehabilitation centers, halfway houses, schools, nursing homes, and patient's homes. Increasingly, occupational

therapists are entering private practice. Therapists are sought as clinicians, administrators, educators, and researchers in programs concerned with (1) prevention and health maintenance, (2) rehabilitation, and (3) daily living tasks and vocational adjustment.

The content of the educational programs in occupational therapy at Columbia University reflects the philosophical beliefs on which the profession is founded:

A person is an active being whose development is influenced by the use of purposeful activity. Content emanating from this belief focuses on normal development throughout the life span, including age-related, role-specific activity, as well as the structure and function of interrelated biological and behavioral systems.

Human life includes a process of continuing adaptation that promotes survival and self-actualization through mastery of life skills and satisfying performance of leisure-time activities. This adaptation may be interrupted by biological, psychological, and environmental factors at any time in the life cycle. Courses in pathology and psychopathology address the conditions that prevent the individual from functioning adequately within the confines of a unique lifestyle.

Purposeful activity/occupation, including its interpersonal and environmental components, may be used to prevent and mediate dysfunction and to elicit maximum adaptation. Course content provides not only the theoretical rationale for using activities to produce change in patients or clients of all

ages with diverse problems, but also the methods of intervention that can be used to assist patients with individual problem solving and help them develop their own ways of coping.

The Programs in Occupational Therapy offer three programs leading to the following degrees:

- Master of Science in Occupational Therapy (Professional)
- Master of Science in Occupational Therapy Administration or Education (Post-Professional)
- Master of Science in Occupational Therapy and Master of Public Health (Professional or Post-Professional)

Requirements for admission vary with the degree and with the program of study chosen. For specific admission criteria see Programs of Study.

MASTER OF SCIENCE DEGREE (PROFESSIONAL)

The purpose of the program is the preparation of competent occupational therapists who, by virtue of their graduate professional education, can enter the health care field primarily as clinicians, with beginning skills in research, administration, and education. The curriculum is based on the premise that students attain competence by learning how to learn independently.

Students come into this program with a strong foundation in the liberal arts, including the humanities and sciences. Professional education builds on and refines this knowledge base and develops skills in the learner in concept formation, analysis, synthesis, and problem solving.

The professional occupational therapy program leads to the degree of Master of Science and is directed toward the development of master clinicians and leaders in the field by providing an opportunity for the es-

tablishment of a generic foundation, followed by the acquisition of basic concepts of administration, supervision, and education, and by development of concepts and techniques in the scientific method.

The Occupational Therapy Program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in conjunction with the Accreditation Committee of the American Occupational Therapy Association. The program is reviewed every seven years to assure maintenance of established standards. Graduates of the program are eligible to sit for the national certification examination for the occupational therapist, administered by the American Occupational Therapy Certification Board. Successful completion of the examination qualifies the graduate to be an Occupational Therapist, Registered (O.T.R.). Many states require licensure to practice; however, state licenses are usually based on the results of the certification examination. This examination is held throughout the country in January and July of each year.

Admission Requirements

Full-time and part-time students are admitted to all programs. Students in the professional program are admitted only in September. Program plans for part-time students are worked out on an individual basis to assure a logical sequence for required courses. Continuous registration is expected of all students.

The program invites applications from students who hold a baccalaureate granted by a college or university of recognized standing. The work for the bachelor's degree must include (a) 11 semester credits in biological sciences, including 3 semester credits in human physiology or 6 semester credits in anatomy/physiol-

ogy combined; (b) 12 semester credits in psychology, including abnormal; (c) 6 semester credits in the social sciences, such as sociology and anthropology; and (d) 6 semester credits in English, including a course in composition and one in literature. Students who have not had chemistry and physics in high school are urged to include one term of each in their undergraduate program of study. An introductory course in statistics is recommended.

Students are encouraged to submit their applications by January 31, 1989. Each applicant is required to submit three letters of reference on forms that are supplied by the program. A personal interview may be requested.

Applicants must have prior knowledge of, or experience in, occupational therapy through observation, work, or volunteer experience.

Degree Requirements

1. Continuous registration is expected until satisfactory completion of all requirements. All academic and clinical requirements must be completed in four years. *Leave of absence:* a student who must interrupt studies for adequate reason—such as sustained ill health or military service—may be granted a leave of absence for a stated period, usually not to exceed one year. The student should apply in writing to the Director of Programs in Occupational Therapy and include in the application the specific reason for requiring the leave and the length of time requested.

2. A minimum of 60 points of approved course work, based on an average course load of 15 points a term for full-time students, and 8 points a term for part-time students.

3. Equivalency credit may be granted on an individual basis when a course equivalent to any of the program's required courses has been completed at another approved insti-

tution within a five-year period. At the time of admission, the student should submit in writing a description of the course(s) and a content outline of the material completed. Prior to registration a proficiency examination may be required in the challenged area. Course substitution will be required to meet the minimum course load (see No. 2, above).

4. Minimum course requirements in areas of basic competency must be completed by all candidates: biological sciences, behavioral sciences, medical conditions, activities, and occupational therapy evaluation and treatment procedures.

Minimum course requirements must be completed in the following additional areas of competency: principles of administration; principles of supervision; and scientific method.

5. A minimum of twenty-four weeks of full-time (or the equivalent) supervised field experience with clients in programs of prevention, maintenance, and remediation. All field work requirements should be completed within twelve months but must be completed within twenty-four months following completion of academic work.

6. A master's project.

MASTER OF SCIENCE DEGREE (POST-PROFESSIONAL) IN OCCUPATIONAL THERAPY: ADMINISTRATION OR EDUCATION

Increasingly, occupational therapy clinicians are being sought for leadership positions for which advanced professional education is required. Developments in health care services call for additional expertise in administrative, supervisory, and program-planning skills to effect meaningful change. A documented shortage of qualified occupational therapy faculty members exists nationwide in colleges and universities for academic

and clinical teaching. With the continued growth in numbers of persons over sixty-five, it is clear that more occupational therapists will be needed for both medical and community programs serving the elderly. This decade has been equally marked by an unprecedented demand for pediatric occupational therapists. Since the advent of Public Law 94-142, school systems have become the second most common employment setting in the profession. Research experience is vital to verify and refine practice.

The post-professional programs are designed to meet the needs of the experienced certified occupational therapist who seeks increased professional knowledge and skill to prepare for specialized roles as administrator, educator, program developer, or researcher. Optional clinical specializations in gerontology/geriatrics and pediatrics are offered within either the educator or administrator track.

The programs for the degrees of Master of Science in Occupational Therapy Administration and Master of Science in Occupational Therapy Education comprise 36 points of graduate-level courses, including the completion of a thesis. The average full-time student can expect to complete the program in twelve months of study. The part-time student follows an individual plan of study to complete all requirements within five years.

All students take core courses in advanced occupational therapy theory and research methodology. Each student selects a Role Specialization Track either in administration and program development or in academic and clinical teaching. A designated number of courses is also required for each track. Elective content areas, including gerontology and pediatrics, may be selected from courses offered by the Occupational Therapy Program, the School of Public Health, Teachers College, or other graduate divisions of the University.

The philosophy of post-professional occupational therapy education at Columbia University rests upon a learning model that combines the elements of graduate study with those of greater professional knowledge.

The program seeks students who are self-disciplined, independent, and able to make responsible choices for their career advancement. Graduate professional students are seen as flexible, creative persons who are willing to assume a participative role in shaping and refining the educational program of which they are a part and to take advantage of the extensive resources offered by the University.

The two-track role specialization curriculum is based upon three separate but interrelated components: (1) analysis and synthesis of occupational therapy theory and practice; (2) preparation for specialized roles as administrators or educators; and (3) skill development for research design and implementation.

Admission Requirements

Full-time and part-time students are admitted to all programs. Part-time students in the post-professional program are admitted in both September and January. Program plans for part-time students are worked out on an individual basis to assure a logical sequence for required courses. Continuous registration is expected of all students.

The programs are open to applicants who hold a baccalaureate degree granted by a college or university of recognized standing and certification as an occupational therapist from the American Occupational Therapy Association. In addition, an applicant should have (a) a minimum of two years of working experience as an occupational therapist and (b) elementary skill in statistics (during 1988-1989, this may be taken during the first term in the program).

Recent official scores of the Graduate Record Examination should be submitted. The institution number to use for tests is 2137, department 0618. (During 1988–89, an applicant may be accepted on the basis of academic standing in lieu of the Graduate Record Examination.)

Each applicant is required to have a personal interview and to prepare a resume and statement of goals and directions for graduate education. Three letters of reference must also be submitted on forms that are supplied by the program.

Transcripts of all post-secondary education should be forwarded by the registrars of the respective schools directly to the Director of Programs in Occupational Therapy.

Degree Requirements

1. Continuous registration is expected until satisfactory completion of all requirements. All requirements, including the thesis, must be completed in five years. *Leave of absence:* a student who must interrupt studies for adequate reason, such as sustained ill health, may be granted a leave of absence for a stated period, usually not to exceed one year. The student should apply in writing to the Director of Programs in Occupational Therapy and include in the application the specific reason for requiring the leave and length of time requested.

2. A part-time student is expected to carry a minimum of 3 points a term on a continuous basis until all course work has been completed. Students working only on their thesis are required to register for one point of advisement during each ensuing term. All degree requirements, including the thesis, must be completed within five years.

3. A minimum of 36 points of approved graduate course work is required. At least 30 of the required 36 points must be taken at Columbia

University, with a minimum of 19 points of the total credits from courses offered in the Occupational Therapy Program. A thesis is required and must be completed before the degree is awarded.

4. All students must meet minimum course requirements for competency in the required core courses in advanced occupational therapy theory and professional issues, research methodology, and thesis development.

5. At the time of admission to the two-track program, a student selects either administration or education as the area of role specialization. Minimum course requirements must be completed in each track; for education: principles of curriculum and teaching, principles of supervision, and teaching practicum; for administration: principles of administration and program development, principles of supervision, and administration practicum.

6. Students who enroll in the gerontology/geriatrics or pediatrics clinical specialization must take at least 11 of the total 36 points of course work in their elective clinical area.

7. It is recommended that at least 3 points of elective credit be selected by all other students in the area of their role specialization. Other elective credits may be taken in any graduate division of the University.

MASTER OF SCIENCE IN OCCUPATIONAL THERAPY/MASTER OF PUBLIC HEALTH

As the mandate for delivery of health care evolves in directions of increased efficiency and cost effectiveness, demands on the occupational therapist as a manager and decision maker continue to evolve as well. Within a brief period of time following graduation, the occupational therapists's role may expand beyond departmental tasks to

include related areas involving the analysis and evaluation of services needed for special populations. These roles call for additional education to incorporate knowledge and principles for addressing the health needs of a larger public. In response to this demand, the Programs in Occupational Therapy and the School of Public Health have jointly established a program of study which leads to two degrees. The dual degree program has been developed to prepare occupational therapists to function effectively as leaders in the changing health arena by combining the skills of the occupational therapist with those of the public health professional.

The Joint Degree Program interfaces with the existing two Programs in Occupational Therapy at the professional, entry level and the post-professional, advanced level. The M.S./M.P.H. Program is an option for students at both levels.

The M.S./M.P.H. program prepares occupational therapists to:

1. emphasize prevention and public planning principles, as well as those of rehabilitation;
2. consider more flexible arenas for care;
3. contribute to interdisciplinary health care policy;
4. apply specialized technical knowledge of such areas as data base management and epidemiological aspects of abnormal development to leadership positions as community program planners, client advocates, and participants in health care decision making.

Admissions Requirements (Professional Level)

Students must make separate application to the Programs in Occupational Therapy and the School of

Public Health. This may be done simultaneously or at different times.

For the Programs in Occupational Therapy admissions requirements, see page 34.

Degree Requirements (Professional Level)

1. Continuous registration is expected until satisfactory completion of all requirements. All academic and clinical requirements for both degrees must be completed in five years. *Leave of absence*: see page 30.
2. A minimum of 90 points of approved work, based on an average course load of 15 points a term for full-time students, and 8 points a term for part-time students.
3. Equivalency credit (see p. 30)
4. Minimum course requirements in areas of basic competency in occupational therapy must be completed by all candidates: biological sciences, behavioral sciences, pathology, activities and occupational therapy evaluation and treatment procedures.
5. Minimum course requirements in public health include 5 core courses in health administration, biostatistics, epidemiology, environmental science and sociomedical sciences, plus a distribution of concentration area and elective courses equivalent to three terms of full-time academic work.
6. A minimum of twenty-four weeks of full-time (or the equivalent) supervised field experience with clients in programs of prevention, maintenance and remediation. All fieldwork requirements should be completed within twenty-four months following completion of academic work.

Admission Requirements (Post-Professional Level)

Students may register on a matriculated full-time or part-time basis or as non-matriculated, part-time students for a maximum of 9 credits. Separate application must be made to the Programs in Occupational Therapy and the School of Public Health. This may be done simultaneously or at different times. (For the Programs in Occupational Therapy, see Admission Requirements—Post Professional Program).

Degree Requirements (Post-Professional Level)

1. Continuous registration is expected until satisfactory completion of all requirements. All requirements, including the thesis must be completed in seven years. *Leave of absence*: see M.S. Degree (Post-Professional) Programs.
2. A part-time student is expected to carry a minimum of 3 points a term on a continuous basis until all course work has been completed. Part-time students cannot expect to meet all course requirements for both degrees during evening hours. Some day classes and perhaps a summer session may be needed to complete the degrees.
3. A minimum of 72 points of approved graduate course work is required. This includes 15 points of core courses in each program in occupational therapy theory, professional issues, research methodology and thesis development, as well as biostatistics, epidemiology, health administration, sociomedical sciences, and environmental sciences.
4. Students must select an area of concentration in one of the divisions of the School of Public

Health or the Programs in Occupational Therapy but may take electives in both programs. The Public Health divisions are General Public Health, Biostatistics, Epidemiology, Health Administration, Population and Family Health, including Maternal/Child Health, Sociomedical Sciences, and Environmental Sciences.

5. One term of practical experience is required of all candidates for the M.P.H. The focus, content, and timing are individually designed to meet the particular needs of each student.

ADMISSION PROCEDURE

Forms to be used in applying for admission to all programs may be obtained by writing to the Programs in Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032. It is advisable that applications to be filed by January of the academic year in which the student wishes to begin studies. The completed forms must be accompanied by the application fee (see *Registration and Expenses—Fees*). The fee is not returnable and is not credited toward tuition.

Acceptance Fee

An applicant who has been accepted must notify the Director that he or she intends to matriculate and must accompany the notification with a check or money order for \$100, payable to Columbia University, no later than two weeks after receiving notice of the acceptance. The acceptance fee is applied to the applicant's tuition upon registration in the class to which the applicant has been admitted. If the applicant does not register in that class, the acceptance fee will be retained by the University unless the

University for any reason cancels the acceptance.

Health Examination and Liability Insurance

The Occupational Therapy Program is a combined academic and experiential program, beginning with the first term and extending to graduation. Institutions in which field work assignments are made require a certificate of good health before they will permit students to work with patients/clients. In addition, they require that all students carry professional and personal liability insurance. All students are required to have a preregistration physical examination and proof that professional and personal liability insurance has been obtained.

Forms to be used in meeting both of these requirements prior to the September registration are mailed early in the summer to all accepted students.

International Students

The Occupational Therapy Admissions Committee is guided by an evaluation of educational credentials by the International Student Office to determine the equivalency of an applicant's educational background in terms of admission requirements. The applicant must fulfill the usual admission requirements.

A personal interview is recommended, when feasible. If the applicant does not plan to be in this country until after action has been taken on his or her application, the director will try to arrange for an interview with a therapist or physician in the home country.

All international applicants must submit scores from the Test of English as a Foreign Language (TOEFL). Applicants may be requested to undertake a course in En-

glish in this country prior to beginning the professional or post-professional program.

The staff of the International Student Office, 208 Lewisohn, provides advice and counseling to international students on such matters as University admission, advanced standing, English proficiency examinations, academic placement, personal and financial problems, and regulations of the United States Immigration and Naturalization Service (visas, extensions of stay, work permission, temporary departure from the United States, transfer from Columbia to another school, termination of study). Information about the various international student clubs at Columbia and about opportunities to attend conferences, travel in the United States, and participate in community and cultural activities may be obtained from this office. Maps of New York City and discount tickets to concerts and plays are available.

Non-Degree Students

A student may apply to take courses in the post-professional program as a nonmatriculated (special) student. In order to change to degree candidacy, a student needs to file an application for change of status through the Programs in Occupational Therapy. The special student admitted to degree candidacy may be awarded a maximum of 15 points for courses taken as a nonmatriculant.

Combined B.S./M.S. Programs

Combined B.S./M.S. articulation programs have been developed with the Columbia University School of General Studies for both physical therapy and occupational therapy and with Stern College (Yeshiva University) and Upsala College for occupational therapy. These programs allow

students to complete three years of undergraduate work in their own college, and to combine the fourth year of baccalaureate education with the first year in the master of science de-

gree programs at Columbia. Students from these three colleges can thereby pursue the usual six-year sequence in five years at a considerable saving of time and cost.



Programs of Study

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary. See *Key to Course Listings*.

MASTER OF SCIENCE DEGREE (PROFESSIONAL) PROGRAM

The average student can expect to complete this program in twenty-four calendar months of full-time effort in classroom work, field work experience, and independent study. Part-time students can expect to complete the program in thirty-six months of uninterrupted academic and clinical work. Since a number of courses have prerequisites, the part-time student must prepare a total plan of study in the first term to assure a logical sequence of content.

The program is planned to enable the student to gain a mastery of knowledge in occupational therapy, and to practice skills and competencies required of the practicing clinician in this field; in addition, the student examines the principles and methods of leadership roles in administration, supervision, education, and the scientific method. Faculty members work with the students as developers of learning environments and as resource people in collaborative problem solving.

The first year of the program and portions of the second year are directed toward development of the clinician role. Opportunities are available to build the desired competencies through two levels of field experience:

Level I clerkships are scheduled each term for a minimum of one full day a week as concurrent experiences with the academic learning of a particular

course. Three different patterns are followed, depending on the objectives and/or content of a course: (1) students are assigned individually or in pairs to a facility throughout the term; (2) the instructor takes the entire class to a facility where students work with assigned patients/clients; or (3) students are assigned to a setting where they assume greater responsibility in determining the need for occupational therapy services. Each clerkship pattern is designed to demand sequentially higher skills of application.

Level II practicums are scheduled as full-time experiences following completion of academic work for that area of practice and are usually in twelve-week blocks. See "Summer Session" following first and second years.

The focus of the second year allows the student to direct attention also to the development of leadership skills in administration, supervision, research, and education. These areas can be emphasized according to personal preference (see *Outline of the Programs*). Courses in educational theory and methods are available with a limited number of teaching assistantships as outlined below.

A unique approach to the completion of a master's degree research project has been developed by the occupational therapy faculty. Faculty-student research teams allow students to work with a faculty adviser on a topic in the adviser's area of interest. During the first year, students in groups of two develop their projects while acquiring foundations of research methods and scientific inquiry, as well as practicing reading and evaluating research reports. During the second year, they submit a protocol and carry

out the project, analyze data, and report results in thesis format.

Course requirements and their sequence are given in the *Outline of Programs*. For electives and substitutions, students should consult the bulletins of Teachers College, the School of Public Health, and the Graduate School of Arts and Sciences.

Key to Course Listings

Each course number consists of capital letters followed by four digits and the term designation.

The capital letters indicate the curriculum for whose students the course is primarily offered:

- H.P. Health Professions (conjoint courses for students of Physical Therapy and Occupational Therapy)
- O.T. Occupational Therapy
- P.T. Physical Therapy
- P.H. Public Health

The level of the course is represented by *the first digit*:

- 6 Graduate course
- 8 Graduate course, advanced

The subject area of the course is represented by *the second digit*:

- 1 Biological sciences
- 2 Behavioral sciences
- 3 Medical conditions
- 4 Treatment modalities
- 5 Professional concepts and treatment
- 6 Clinical experience

TERM DESIGNATIONS: X, Y, AND Z

An *x* following the course number indicates that the course meets in the autumn term; a *y* indicates the spring term; and a *z* indicates the Summer Session.

Courses of Instruction

H.P.M6101x

Human anatomy

Professors Noback and April. 3 points.

Anatomy of the human body, with emphasis on those features that are most important for muscular activity. Lectures and laboratory work, the latter based on prepared dissection of the human body.

H.P.M6103x

The human nervous system

Professor Noback. 2 points.

Anatomy of the human nervous system, including the structural unit, the cerebrospinal system, and the autonomic system. Attention to the gross divisions of the brain, spinal cord, and peripheral nerves, with emphasis on the controls affecting voluntary motion.

H.P.M6220x

Normal human growth and development

Professors Cook, Jones, and Germain. 2 points.

Individual development from conception to death, with exploration of the context of each life stage, its opportunities, problems, and emotions. Attention given to the interrelationship of individual development with significant evolving institutions such as the family and the culture. This interdisciplinary course is designed to utilize each student's independent learning style. Students may meet course objectives through readings, use of videotapes, and observational experiences. Required seminars allow for interchange of ideas.

H.P.M6324y

Pathology in internal medicine

Guest faculty. 2 points.

A systems approach to the study of pathophysiology related to internal medicine that includes a survey of etiology, pathology, symptomatology, management, and prognosis. Consideration is given to selected disorders frequently seen by physical and occupational therapists.

H.P.M6325y**Neurological and orthopedic disorders***Guest faculty. 2 points.*

Emphasizes management of the response of the human body to disease or injury involving the nervous and skeletal systems. Implications for physical and occupational therapy intervention are discussed.

H.P.M8200x, y, z***Research advisement***Faculty advisers. 0 points.*

Students who do not complete the requirements for O.T.M6572 or O.T.M6573 during the designated term must register for 0 points of continued advisement for each additional term required for completion of project.

O.T.M6107y**Kinesiology***Professor Williamson. 2 points.*

Application of knowledge of musculoskeletal anatomy, neurophysiology, and biomechanics to the study of human motion. Emphasis on the analysis of movement in daily activity and principles of motor control. Instruction through lectures, movement laboratory, and problem-solving seminars.

O.T.M6212x**Group dynamics***Professor Falk-Kessler. 2 points.*

Prerequisite: general psychology and sociology. A lecture-laboratory designed to familiarize the student with the basic principles underlying group process and behavior through each individual's participation in the group.

O.T.M6218y**Supervision and management***Ms. Bouley. 2 points.*

The principles of supervision and management. Analysis and development of effective supervisory approaches and evaluation tools. Experiential laboratories using peer evaluation and critique.

O.T.M6230y**Introduction to rehabilitation technology***Ms. Dickey and guest faculty. 2 points.*

Provides students with an orientation to electronic technical aids for use with persons who have physical disabilities. Emphasis is on clinical application of microcomputers and environmental control systems.

O.T.M6438y**Activities as natural human phenomena, I: products and processes***Ms. Mazur-Robinson. 3 points.*

Exploration of activities as natural human phenomena. Acquisition of selected activities skills involves the exercise of judgment, creativity, and self-reliance. The student is both a participant in and observer of the activities process.

O.T.M6440y**Activities as natural human phenomena, II: therapeutic potential***Ms. Mazur-Robinson. 2 points.*

Prerequisite: O.T.M6438. Further exploration of activities as natural human phenomena. Acquisition of selected activities skills is accompanied by analysis of therapeutic potential.

O.T.M6448y**Prevocational evaluation***Ms. King. 1 point.*

The role of the occupational therapist in prevocational evaluation. Fundamental elements of prevocational evaluation, treatment, and program planning. Emphasis on the personal and social value of work and on helping each client achieve a satisfying occupational role.

O.T.M6449x**Occupational therapy with families***Ms. Bouley. 1 point.*

An overview of the occupational therapist's role in the treatment of families from a systems perspective. Includes evaluation tools appropriate to use with families; activity-centered family treatment modalities; family treatment issues of special populations; and ethnic considerations in family treatment. Case studies, experiential activities, videotapes, and discussion.

*Registration for continued advisement will be at a tuition charge of 1 point.

O.T.M6550x**Teaching assistantship***Professor Noback. 3 points.*

A few opportunities are available for students recommended by the faculty to assist with components of instruction in *H.P.M6101—Human anatomy* and *H.P.M6103—Anatomy of the nervous system*. A written report documenting and evaluating the experience is required.

O.T.M6551x**Professional foundations***Professor Neuhaus. 3 points.*

Overview of foundations and scope of occupational therapy in health care and human services. Focus on self-development of student for professional roles and functions through individual and group experiences. Simultaneous clerkship experience introduces the student to occupational therapy practice in a variety of settings.

O.T.M6553y**Principles of evaluation and treatment for mental health***Professor Falk-Kessler. 4 points.*

Theories of application relating to occupational therapy within the field of mental health. Evaluation, planning, and intervention strategies are presented in lecture-seminar sessions and practiced in clerkship experiences.

O.T.M6555x**Prevention and rehabilitation in geriatrics and gerontology***Professor Miller. 3 points.*

Introduction to individual and group treatment approaches in meeting the needs of elderly patients; analysis of normal aging and disease states; introduction to indirect service roles (administration, consultation, and education) in service agencies for these clients. Clerkship and seminar.

O.T.M6555y**Gerontology and geriatrics: clerkship and seminar***Professor Miller. 1 point.*

Further practice with prevention and treatment approaches for elderly persons through clerkship experiences and a seminar in group problem solving.

O.T.M6556y**Occupational therapy in pediatrics***Professor Germain. 4 points.*

Principles of occupational therapy applied to the child with developmental dysfunction.

Emphasis on neurodevelopmental and sensory-perceptual frames of reference. Concurrent lecture, laboratory, and clinical experience with faculty participation of Mr. DeMauro.

O.T.M6563x**Evaluation and treatment of physical disabilities, I***Professor Pang. 4 points.*

Emphasis on the biomechanical and rehabilitative approach to treatment. Includes orthotics, splinting, prosthetics, adaptive equipment, activities of daily living, and therapeutic intervention with patients with specific diagnostic characteristics. Laboratory experiences and clerkship as simultaneous practicum.

O.T.M6564y**Evaluation and treatment of physical disabilities, II***Professor Pang. 4 points.*

Emphasis on neurodevelopmental treatment approaches including neurophysiologic principles of brain function and the motor system; Rood, Brunnstrom, Bobath, and PNF. Evaluation and treatment applications for patients with various neurological deficits presented in seminar discussion, case study, problem-solving, and laboratory experiences; clerkship as a simultaneous practicum.

O.T.M6571y**Research methods***Dr. Bruno. 2 points.*

Introduction to methods of scientific inquiry, including data collection, analysis, and interpretation. Refinement of skills of critiquing the literature, formulating research questions and hypotheses, and proposing alternate designs for conducting studies.

O.T.M6572x**Research protocol***Professor Neuhaus and faculty advisors. 2 points.*

Prerequisite: *O.T. M6571*. Further development of skills for selecting a feasible design and an appropriate procedure for data analysis in preparing a well-formulated research proposal for the Master's Project. Practice in working collaboratively as part of a faculty-student research team.

O.T.M6573y**Master's project***Faculty advisers. 2 points.*

Prerequisite: O.T.M6572. The student carries out the study of the approved topic, collects and analyzes data, and evaluates results. A documented report in thesis format or journal article style is required.

O.T.M6578y**Psychopathology***Professor Falk-Kessler and guest faculty. 2 points.*

Review of symptoms, evaluations, and classification of psychopathology. Introduction to psychopharmacological and psychotherapeutic treatment of mental illness. Readings, films, seminars, and discussions.

O.T.M6653z**Practicum I: evaluation and treatment of patients with mental health problems***Ms. Miller (in charge), Professor Falk-Kessler, and clinical supervisors. 0 points.*

Prerequisite: O.T.M6553 and all other 6000-level courses upon which this area of practice is based, or their equivalents. Supervised field experience with patients or clients, applying evaluative techniques, interpreting findings, planning and implementing treatment, and reporting results. Full time for three months.

O.T.M6663x, y, z**Practicum II: evaluation and treatment of patients with physical disabilities***Ms. Miller (in charge), Professor Pang, and clinical supervisors. 0 points.*

Prerequisite: O.T.M6563 and all other 6000-level courses upon which this area of practice is based, or their equivalents. Supervised field experience with patients or clients, applying evaluative techniques, interpreting findings, planning and implementing treatment, and documenting results. Full time for three months.

The following elective may be taken following the preceding course:

O.T.M6680x, y, z**Practicum III: special interest***Ms. Miller and clinical supervisors. 0 points.*

Prerequisite: completion of all course work and Practicums I and II. A field experience is individually planned to enrich the student's background in accordance with his or her needs and interests. Oppor-

tunities are provided to develop clinical skills with specialty age or diagnostic groups (e.g., pediatrics, gerontology, hand dysfunction); or to develop indirect service skills in administration or research.

P.H.P6530x, y**Issues and approaches in health administration***Professor Rosenberg. 3 points.*

Lectures and readings on administrative problems and interventions that affect and are affected by all public health practitioners in seeking to improve health care delivery, health care, and health. These concepts are synthesized in midterm and final essay examinations.

Electives

The student should consult the bulletin of the School of Public Health, School of Social Work, Graduate School of Arts and Sciences, Business School, and Teachers College, as well as the offerings in this bulletin.

MASTER OF SCIENCE DEGREE (POST-PROFESSIONAL) PROGRAMS

The goal of the program is to prepare professionals who are able to contribute to the expansion of occupational therapy knowledge, to integrate the occupational therapy belief system into practice, and to work autonomously or collaboratively to seek solutions to health problems.

1. *As administrators:* the graduate occupational therapists will be prepared to plan and implement innovative health care programs for specialized populations, to influence the formulation of health care legislation, and to participate in quality assurance programs.

2. *As educators:* the graduate occupational therapists will be able to fill existing vacancies in academic and clinical educational programs at the undergraduate and graduate levels, to contribute to the expansion of occu-

pational therapy knowledge, and to provide leadership for the continuing education needs of fellow professionals. In addition, all graduates of the program will have a foundation in planning and conducting research independently or jointly with colleagues in other allied health professions. Those who specialize in gerontology/geriatrics or pediatrics will be able to direct their administrative, teaching, and research efforts particularly toward the needs of their selected clinical specialization.

A full-time student can expect to complete this program in twelve calendar months of classroom work, practicum experience, and independent study. The first term provides the foundation for the analysis of occupational therapy theories and for design of research. It also introduces the principles of administration or teaching and offers opportunity for electives. The second term emphasizes the supervisory aspects of either role and adds the practicum component to further exploration of theory. There is ongoing advisement for developing the thesis. The summer term is left free of classroom work to allow full-time effort to complete the thesis.

A part-time student must carry a minimum of 3 points a term in order to complete the program within the maximum time of five years permitted for all requirements, including the thesis. Since a number of courses have prerequisites, the part-time student must prepare a total plan of study in the first term to assure a logical sequence of content.

All students take the required core courses. All other courses except electives are taken in the student's area of role specialization in either education or administration, with or without the gerontology/geriatrics or pediatrics content. These courses are in Teachers College, the School of Public Health, or other graduate divisions of the University.

The practicum experiences for both specializations are individually designed to meet each student's interest and needs.

In administration, the practicum may be carried out in a health care facility where there is a need for consultation, problem solving, or program development.

In education, this may be done through teaching a unit of study in the entry-level program, as a unit of clinical instruction to students during fieldwork, or as a community education project. Any of these may incorporate the gerontology/geriatrics or pediatrics content.

A variety of content options for elective courses are available to increase the student's advanced knowledge base for research and teaching in occupational therapy. Courses in the areas of motor learning and neurophysiology are examples.

H.P.M8200 x, y, z*

Research advisement

Faculty advisers. 0 points.

Students must register for 0 points of continued advisement for each additional term required for completion of the approved draft of the thesis.

H.P.M8301z

Group dynamics for professionals in the health care fields

Professor Falk-Kessler. 3 points.

This course should be taken prior to H.P.M8500. Designed to teach health professionals the fundamentals of group dynamics, using principles that are applicable to administrators in a variety of settings—from large organizations to small treatment teams. Exploration of different theoretical approaches through lecture, laboratory experience, and feature films. Development of observational skills and problem-solving techniques.

*Registration for continued advisement will be at a tuition charge of 1 point.

H.P.M8500x**Interdisciplinary collaboration in long-term care: a seminar and practicum***Professor Miller. 3 points.*

Prerequisite: *H.P.M8301* or the instructor's permission. Models of health care for the elderly and the skills needed by professionals engaged in interdisciplinary activity. Seminar sessions with team-teaching include representatives from different disciplines. Knowledge relevant to the study and influence of interdisciplinary collaboration is achieved experientially with a problem-solving focus.

H.P.M8503x, y**Tutorial in indirect service***Professor Miller. 2 points.*

Special permission required. Individual project designed by the student for developing skills in consultation and/or program development.

H.P.M8510y**Methods of teaching in health care***Professor Miller. 2 or 3 points.*

Models of curriculum design and learning theories applicable to learners with different backgrounds and levels of preparation. Development of specific learning modules for use in academic and/or health care settings along the continuum of care. Opportunity for practice and evaluation of teaching strategies: the case-study method, role-plays, audio-visual aids, and problem-solving.

H.P.M8520x, y, z**Therapeutic strategies for severely handicapped children***Mr. DeMauro. 3 points.*

Analysis of the characteristics and needs of clients with severe and profound handicapping conditions. Application of theories related to assessment and intervention in direct and indirect service delivery models.

O.T.M8100x**Theory in a practice profession***Professor Neuhaus and guest faculty. 3 points.*

Presentation of philosophical and historical foundations for linking health and activity with occupational therapy theories. Examination of concepts and approaches used in current practice to explain the relationship between theory and application. Formulation of theoretical model applicable to student's own practice.

O.T.M8101y**Advanced theories of intervention***Professor Neuhaus and guest faculty. 3 points.*

Prerequisite: *O.T.M8100*. Systematic review of occupational therapy literature for validation of occupational therapy theories. Critical analysis of student's own practice for evidence of theory-based application. Synthesis through proposing feasible approaches for validation of intervention programs.

O.T.M8103y**Supervision: approaches for specialized roles***Ms. Bouley. 2 or 3 points.*

The supervisory relationship in education and middle management. Analysis and development of effective supervisory approaches and evaluation tools for student performance and personnel. Experiential laboratories using peer evaluation and critique. Assignments related to student's specialization.

O.T.M8105y**Professional issues***Professor Neuhaus and associates. 2 points.*

Analysis of social, legal, political, and financial issues influencing occupational therapy practice. Introduction to methods of proposing and implementing change for existing constraints. Practice with specific skills needed for preparation of position paper, grant proposal, publishable article, or public education materials.

O.T.M8110x, y, z**Thesis seminar***Professor Neuhaus. 1 point.*

Group experience in development of research questions and preparation of thesis proposal. Peer review and critique of ideas. Introduction to use of resources available to students in preparing the proposal. For each additional term required for completion of the proposal, students must register for *H.P.M8200* (0 points) and continue to participate in the seminar.

O.T.M8111x, y, z**Thesis advisement***Faculty advisers. 1 point.*

Following approval of thesis proposal, students register for thesis advisement with their faculty adviser each term until thesis is completed. Hours are mutually arranged between student and adviser.

O.T.M8112z**Master's thesis***Faculty advisers. 4 points.*

Prerequisite: adviser's permission. Development and completion of research project suitable for publication. Credit on acceptance of thesis.

O.T.M8210x, y, z**Practicum in education***Professor Neuhaus. 3 points.*

Supervised instructional experience in an academic or clinical setting. Students design and implement a learning experience for a selected population, involving objectives, methods, and evaluation in an area of particular interest to each student. Supplemented by biweekly seminar.

O.T.M8520x, y**Practicum in administration***Instructor to be announced. 3 points.*

H.P.M8500 may be substituted for this course. Supervised practice in administration of tasks in selected community agencies, hospitals, or institutions covering an area of particular interest to individual students. Supplemented by biweekly seminar.

O.T.M8550y**Advanced theories of pediatric intervention***Professor Germain and guest faculty. 3 points.*

This course may be substituted for *O.T.M8101*. Examination of theories and current research in cognitive, sensorimotor, and social-emotional aspects of child development and developmental dysfunction. Analysis of theoretical formulations of play and their relationship to therapeutic application.

O.T.M8555x**Assessment, intervention, and research in pediatric occupational therapy***Professor Germain and guest faculty. 3 points.*

Analysis of evaluation tools and treatment models applied to infants and children with developmental deficits. Review of current research generated from related clinical studies.

O.T.M8560x, y, z**Adaptation for function***Professors Pang and Germain. 3 points.*

Application of current technology in facilitating performance of daily life tasks. Emphasis on therapeutic positioning through orthotics, fabrication of adaptive equip-

ment, selection of commercial orthoses; and on modifying the physical environment through architectural changes, environmental control units, and augmentative communication systems.

P.H.P6240y**Overview of long-term care***Professor Toner. 3 points.*

An overview of institutional, community-based, and informal supports available within the system of long-term care of the elderly. Lectures, class discussion, and field visits.

P.H.P6530x**Issues and approaches in health administration***Professor Rosenberg. 3 points.*

Lectures and readings on administrative problems and interventions that affect and are affected by all public health practitioners in seeking to improve health care delivery, health care, and health. These concepts are synthesized in small group discussions and in midterm and final essay examinations.

P.H.P8230y**Assessment of intellectual, emotional, and physical well-being in the older adult***Professor Toner. 3 points.*

Systematic review of strategies and instruments for the assessment and diagnosis of mental, physical, and social problems of older people. Videotapes of interviews are used for the development of skills in the use of assessment tools.

TM5021x and z (Teachers College)**Methods of empirical research, I***Professor Sontag. 3 points.*

O.T.M6571 may be substituted for this course. An introduction to the methods of scientific inquiry, research planning, and techniques of making observations and analyzing and presenting data. Topics include methods of inquiry, the role of research in theory, formulating problems and hypotheses, sampling, measurements, and the design of empirical research. Opportunity to design research projects.

TY4052x (Teachers College)**Designing curriculum and instruction***Professor Zumwalt. 3 points.*

May be replaced by *H.P.M8510y*. Models for designing curriculum and instruction.

Students design curriculum for specific settings. Opportunities for individual and group consultation.

Additional role specialization and elective courses are listed in the bulletins of the School of Public Health and Teachers College.

MASTER OF SCIENCE AND MASTER OF PUBLIC HEALTH (JOINT DEGREE) PROGRAMS

The Programs in Occupational Therapy and the School of Public Health have jointly established a program of study which leads to two degrees. To participate in the M.S./M.P.H. Program a student must meet the admission requirements of each school and be formally admitted to both divisions of the University. Application may be made initially to the Programs in Occupational Therapy and later repeated for the School of Public Health.

The curriculum is designed with two student groups in mind: entry level (professional) and advanced level (post-professional). Students at both levels may enroll on a full-time or part-time basis.

Entry Level (Professional)

The Joint Degree Program requires 90 credits or three years, including two summers. Students take the required core courses in both programs. Students will be enrolled in the occupational therapy program for the first two terms. They have the option of

doing Level II Fieldwork (Practicum I) between the first and second year or postponing all fieldwork until completing the second year. With this option they will be able to take course work during the first summer. In the autumn of the second year students combine Public Health and Occupational Therapy courses, still as part of their entry level education. By the spring of the second year students move to the School of Public Health to complete their course work during one or two semesters. During the final three months students take the second required Level II Fieldwork (Practicum II).

The program prepares students to be eligible to sit for the national certification examination as occupational therapists.

For a full description of the professional program, see page 29.

Required courses in occupational therapy and public health are listed for both professional and post-professional levels.

For the professional Master of Science in occupational therapy, 40 points of required course work are in occupational therapy, while the M.P.H. includes 21 points of required course work in public health.

Each degree includes a given number of required courses and electives. These are listed below. Course descriptions for occupational therapy are in the Programs of Study for each level. Course descriptions of Public Health required courses are given below. See the Public Health Bulletin for all other courses.

M.S./M.P.H. Program (Professional)

OCCUPATIONAL THERAPY	POINTS	PUBLIC HEALTH	POINTS
REQUIRED COURSES			
H.P.M6101: Human anatomy	3	P6103: Biostatistics	3
H.P.M6103: Nervous system	2	P6110: Statistical/ computer methods:	
H.P.M6220: Growth and development	2	health data	3*
H.P.M6324: Pathology: internal medicine	2	P6300: Environmental sciences	3
H.P.M6325: Orthopedic and neurological disorders	2	P6400: Epidemiology	3
O.T.M6107: Kinesiology	2	P6530: Health adminis- tration	3
O.T.M6212: Group dynamics	2*	P6540: Dynamics of health planning	3
O.T.M6218: Supervision and management	2*	P6700: Sociomedical sciences	3
O.T.M6438: Activities: pro- ducts and processes	3	P8510: Assessment of health care	3
O.T.M6440: Activities: thera- peutic potential	2	P8519: Master's essay	3*
O.T.M6551: Professional foun- dations	3	*Additional points of required course work jointly credited by both schools.	
O.T.M6553: Mental health	6	Elective Courses	
O.T.M6555: Gerontology	4*		
O.T.M6556: Occupational therapy in pediatrics	4	OCCUPATIONAL THERAPY	
O.T.M6563: Physical disabili- ties I	4	(Minimum: 5 points)	
O.T.M6564: Physical disabili- ties II	4	PUBLIC HEALTH	
O.T.M6578: Psychopathology	2*	(Minimum: 8 points)	

Elective courses may be selected from Programs of Study in the bulletins of both programs.

Total = 90 points

Advanced Level (Post-professional)

Advanced level students are practitioners with a baccalaureate degree in occupational therapy. The Joint Degree Program at this level includes 72 credits and extends over five semesters. Students take the required core courses in each program and receive credit for designated courses selected from either program. They enroll in the Occupational Therapy Program for two terms, then move to the

School of Public Health for the final three terms, including two summers.

All graduates of the joint degree program will have a foundation in planning and conducting research independently or with colleagues in other health professions. Those who specialize in gerontology/geriatrics or in pediatrics will be able to select specialty courses either in occupational therapy or in the public health divisions in geriatrics and geronto-

logy or maternal/child health, respectively. Students may also select any of the other divisions in the School of Public Health—General Public Health, Biostatistics, Environmental Sciences, Epidemiology, Health Administration, Population and Family Health, and Sociomedical Sciences—as their area of concentration. For full descriptions of these, see the *Bulletin of the School of Public Health*.

All students must take the required courses in occupational therapy and public health. All other courses except electives are taken in the student's area of concentration in either program.

Public Health P6103x or y
Introduction to biostatistics
6 hours a week. 3 points.

This course satisfies the biostatistics core requirement for the M.P.H. degree. Mass data of the health fields; the content of vital statistics; methods of collecting, tabulating, and graphing data; elementary methods of analyzing some of the simpler types of data in terms of averages, percentages, and rates. Summarization of experimental data by means of percentages, averages, and measures of variation; methods for evaluating chance variation as applied to percentages and averages; introduction to the concept of correlation.

Public Health P6110x, y, and z
Statistical and computer methods in health data

3 hours a week. 3 points.

Uses of the computer in cleaning, summarizing, and cross-classifying data. Expansion of the material covered in *Public Health P6103*—regression, correlation and contingency table analysis, and the analysis of variance—with data analysis carried out using standard statistical packages.

Public Health P6300x, z
Environmental sciences

3 hours a week. 3 points.

Satisfies the environmental sciences core requirements for the M.P.H. degree. An introduction to preventive health practices with an emphasis on environmental factors. Review of basic concepts in biomedical sciences as they relate to disease causa-

tion. Toxicology, especially carcinogenesis, is stressed. In cooperation with other divisions, tropical diseases and the implications of population growth are discussed. Available techniques of preventive practices, such as controlling the quality of air, water, and consumer products, are described for both the workplace and the general environment. Lectures are followed by discussion groups. Examinations.

Public Health P6400x, y
Principles of epidemiology, I
3 hours a week. 3 points.

Satisfies the epidemiology core requirements for the M.P.H. degree. Prerequisite: for students who are not M.P.H. candidates, the instructor's permission. Prerequisite or corequisite: *Public Health P6100*, and *P6103* or *P6104*. The concepts, principles, and uses of epidemiology. Epidemiologic analysis of the determinants of health and disease. Study of particular diseases to illustrate the descriptions of their distributions and courses, the analysis of their causes, and approaches to prevention and control. In the main, teaching is in autonomous small-group seminars. Research paper, examination, and student participation. Lectures, seminars, and exercises.

Public Health P6530y and z
Issues and approaches in health administration

3 hours a week. 3 points.

Satisfies the core requirements for health administration. Lectures and readings on administrative problems and interventions which affect, and are affected by, all public health practitioners, as they seek to improve health-care delivery, health care, and the health status of populations.

Public Health P6540x
Dynamics of health planning administration

3 hours a week. 3 points.

Primarily for students whose area of concentration is health planning. Prerequisite: the instructor's permission. Introductory course. Translation of health planning theory and legislation into techniques of health planning in use today in health planning agencies. Readings, lectures, and group discussions.

Public Health P6700x and y
Introduction to sociomedical sciences
2 hours a week. 3 points.

This course, or an alternate selected from the list approved by the S.M.S. division, satisfies the sociomedical core requirement for the M.P.H. degree. A critical review of research illustrating the application of social science concepts and methods to health and health care. Issues include the effect of social and psychological factors (such as cultural and ethnic influences, social networks, social class, personality, and stress) on health and health behavior.

Public Health P8510y or z
Assessment of health care
2 hours a week. 3 points.

Prerequisite: the instructor's permission and *Public Health P6530* or the equivalent. Detailed techniques of health care assessment, applicable in ambulatory, inpatient, dental, medical, nursing, and other settings, with emphasis on how to choose, adapt, and implement methodologies for specific situations. Lecture/discussions. Major team project required.

M.S./M.P.H. Degree Program
(Post-Professional)

OCCUPATIONAL THERAPY	POINTS	PUBLIC HEALTH	POINTS
CORE COURSES (30 POINTS)			
O.T.8100: Theory in a practice profession	3	P6103: Biostatistics	3
O.T.8101: Advanced intervention theories	3	P6300: Environmental sciences	3
O.T.8103: Supervision	3	P6400: Epidemiology	3
O.T.8105: Professional issues	2	P6530: Health administration	3
O.T.8112: Master's thesis	4	P6700: Sociomedical sciences	3
ADDITIONAL REQUIRED COURSES (15 POINTS)			
H.P.8301: Group dynamics: health professionals	3	P6540: Dynamics of health planning	3
TM5021: Methods of research	3	P6110: Statistical/computer methods: health care	3
H.P.8500: Interdisciplinary collaboration	3	P8510: Assessment of health care	3
ELECTIVE COURSES			
(Minimum: 12 points)		(Minimum: 15 points)	

Total = 72 points

See Programs of Study for course descriptions and choices of occupational therapy electives. For other course descriptions see Public Health bulletin.

Outline of the Programs

M.S. Degree (Professional) Program

FIRST YEAR		SECOND YEAR	
AUTUMN TERM	POINTS	AUTUMN TERM	POINTS
H.P.M6101: Human anatomy	3	O.T.M6440: Activities: therapeutic potential	2
H.P.M6103: Nervous system	2	O.T.M6449: Occupational therapy with families	1
O.T.M6107: Kinesiology	2	O.T.M6555: Prevention and rehabilitation: gerontology	3
O.T.M6212: Group dynamics	2	O.T.M6563: Physical disabilities, I	4
H.P.M6220: Growth and development	2	O.T.M6572: Research protocol	2
O.T.M6551: Professional foundations	3	Elective	3
O.T.M6578: Psychopathology	2	Total points	15
Total points	16		

FIRST YEAR	
SUMMER SESSION	POINTS
O.T.M6653: Practicum I: mental health	0

FIRST YEAR		SECOND YEAR	
SPRING TERM	POINTS	SPRING TERM	POINTS
H.P.M6324: Pathology in internal medicine	2	O.T.M6218: Supervision and and management	2
H.P.M6325: Orthopedic and neuro- logic disorders	2	O.T.M6230: Introduction to rehabilitation technology	2
O.T.M6438: Activities: products and processes	3	O.T.M6564: Physical disabilities, II	4
O.T.M6448: Prevocational evaluation*	1	O.T.M6555: Gerontology clerkship and seminar	1
O.T.M6553: Mental health	4	O.T.M6573: Master's project	2
O.T.M6556: Occupational therapy in pediatrics**	4	P.H.P6530: Health administration*	3
O.T.M6571: Research methods	2	Elective	2-3
Total Points	18	Total points	16-17

SECOND YEAR	
SUMMER SESSION	POINTS
O.T.M6663: Practicum II: physical disabilities	0
Elective—O.T.M6680: Practicum III: special interest	0

*In 1988-89, this course will be taught in autumn of the second year.

**In 1988-89, this course will be taught in the second year.

M.S. Degree (Post-Professional) Programs: Full Time

For descriptions of courses with the prefix P, see the School of Public Health bulletin; with the prefixes TI, TD, or TY, see the Teachers College bulletin.

AUTUMN TERM**ADMINISTRATION AND EDUCATION** **POINTS**

T15021: Methods of research	3
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O.T.M8100: Theory in a practice profession	3
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O.T.M8103: Supervision	2-3
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O.T.M8110: Thesis seminar	1
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TY4052: Designing curriculum	
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or

H.P.M8510: Methods of teaching	
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or

P6530: Health administration	3
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Electives (for Gerontology/Geriatrics and Pediatrics, see below)	4-5
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Total points	16-18
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SPRING TERM**ADMINISTRATION** **POINTS** **SPRING TERM** **POINTS**

O.T.M8101: Intervention theories	3	O.T.M8101: Intervention theories	3
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O.T.M8111: Thesis advisement	1	O.T.M8111: Thesis advisement	1
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O.T.M8105: Professional issues	2	O.T.M8105: Professional issues	2
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O.T.M8520: Practicum and seminar	3	O.T.M8210: Practicum and seminar	3
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A minimum of one course from the School of Public Health	3	A minimum of one course from Teachers College TY or TD Department	3
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Electives (for Gerontology/Geriatrics and Pediatrics, see below)	3-4	Electives (for Gerontology/Geriatrics and Pediatrics, see below)	3-4
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Total Points	15-16	Total Points	15-16
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SUMMER SESSION**POINTS**

H.P.M8301: Group dynamics: professionals	3
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O.T.M8112: Master's thesis	4
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GERONTOLOGY (WITH ADMINISTRATION OR EDUCATION)**AUTUMN TERM** **POINTS** **SPRING TERM** **POINTS**

H.P.M8500: Interdisciplinary collaboration: long-term care	3	O.T.M8503: Tutorial: indirect service	2
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H.P.M8510: Methods of teaching: health care	2-3	P6240: Overview of long-term care	3
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H.P.M8510: Methods of teaching: health care	2-3	P.H.P8230: Assessment of well-being	3
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PEDIATRICS (WITH ADMINISTRATION OR EDUCATION)

AUTUMN TERM	POINTS	SPRING TERM	POINTS
O.T.M8555: Assessment and intervention pediatrics	3	O.T.M8560: Adaptation for function O.T.M8550: Advanced intervention theories: pediatrics	3
SUMMER SESSION	POINTS		
H.P.M8520: Therapeutic strategies: handicapped children	3		

Required Core Courses

- O.T.M8100. Theory in a practice profession (3 points)
 O.T.M8101. Advanced theories in intervention (3 points)
 T15021. Methods of empirical research (3 points)
 or
 O.T.M8550. Advanced intervention theories: pediatrics (3 points)
 O.T.M8105. Professional issues (2 points)
 O.T.M8110. Thesis seminar (1 point)
 O.T.M8111. Thesis advisement (1 point)
 O.T.M8112. Master's thesis (4 points)

Role Specialization CoursesOCCUPATIONAL THERAPY
ADMINISTRATION

- P6530. Issues and approaches in health administration (3 points)
 O.T.M8103. Supervision (2 or 3 points)
 O.T.M8520. Practicum and seminar in administration (3 points)
 or
 H.P.M8500. Seminar and practicum: long-term care (3 points)

and a *minimum of one* of the following P courses:

- P6503. Introduction to health economics (3 points)
 P6509. Health management techniques (3 points)
 P6544. Health care financial management (3 points)
 P6560. Organizational theories and health services (3 points)

- P8510. Assessment of health care (3 points)
 P.H.P6011. Public health law (2 points)
 Electives (8 points, of which 3 points are recommended in area of administration)

OCCUPATIONAL THERAPY EDUCATION

- O.T.M8510. Methods of teaching (3 points)
 O.T.M8103. Supervision (2 or 3 points)
 O.T.M8210. Teaching practicum and seminar (3 points)

or

- TY4052. Designing curriculum and instruction (3 points)

and a *minimum of one* of the following TD, TY, or TU courses:

- TD4011. Curriculum and instruction in higher education (3 points)
 TD5011. College teaching and learning (3 points)
 TD5055. Staff development and training (3 points)
 TY4002. Basic course in theory of curriculum design (3 points)
 TY4001. Basic course in research on teaching (3 points)
 TU4083. Instruction design of educational technology (3–4 points)

Electives (8 points, of which 3 points are recommended in area of education)

M.S./M.P.H. Degree (Professional) Program: Full Time

FIRST YEAR		FIRST YEAR	
AUTUMN TERM	POINTS	SPRING TERM	POINTS
H.P.M6101: Human anatomy	3	H.P.M6324: Pathology: Internal medicine	2
H.P.M6103: Nervous system	2	H.P.M6325: Neurological/orthopedic disorders	2
O.T.M6107: Kinesiology	2	O.T.M6438: Activities: products and processes	3
O.T.M6212: Group dynamics	3	O.T.M6553: Mental health	4
H.P.M6220: Growth and development	2	O.T.M6556: Pediatrics	4
O.T.M6551: Professional foundations	3		<u>15</u>
O.T.M6578: Psychopathology	<u>2</u>		
	16		
FIRST YEAR SUMMER SESSION*			
	POINTS		
O.T.M6653: Practicum I	0		
P.H.P6300: Environmental sciences	3		
P.H.P6540: Dynamics of health planning	3		
TM5120: Research methods or	3		
P.H.P6110: Statistical/computer methods: health data	3		
Electives (P.H.)	<u>3</u>		
	12		
SECOND YEAR		SECOND YEAR	
AUTUMN TERM	POINTS	SPRING TERM	POINTS
O.T.M6563: Physical disabilities, I	4	O.T.M6564: Physical disabilities, II	4
O.T.M6555: Prevention and rehabilitation: gerontology	3	O.T.M6555: Gerontology seminar	1
O.T.M6230: Introduction to rehab. technology	2	P.H.P8510: Assessment of health care	3
P.H.P6530: Health administration	3	P.H.P6103: Biostatistics	3
O.T.M6440: Activities: therapeutic potential	2	P.H.P6700: Sociomedical sciences	3
O.T.M6449: Occupational therapy with families	<u>1</u>	Electives (P.H.)	3
	15		<u>17</u>

*The two summer terms may be taken in either order; the Practicum may either precede or follow the second year.

SECOND YEAR

SUMMER TERM* POINTS

Coursework as described above

or 12

Practicum I 0

THIRD YEAR

AUTUMN TERM POINTS

O.T.M6218: Supervision and management 2

P.H.P6400: Epidemiology 3

P.H.P8519 Master's essay 3

Electives (P.H.) 3

(O.T.) 5

16

THIRD YEAR

SPRING TERM POINTS

Practicum II 0

M.S./M.P.H. Degree (Post-Professional) Program: Full Time

FIRST YEAR

AUTUMN TERM POINTS

O.T.M8100: Theory in a practice profession 3

P.H.P6700: Sociomedical sciences 3

P.H.P6530: Health administration 3

P.H.P6300: Environmental sciences 3

Elective (O.T.) 3

15

FIRST YEAR

SPRING TERM POINTS

P.H.P8510: Assessment of health care 3

O.T.M8101: Advanced intervention theories 3

O.T.M8105: Professional issues 2

P.H.P6103: Biostatistics 3

P.H.P6400: Epidemiology 3

14

FIRST YEAR

SUMMER SESSION POINTS

H.P.M8301: Group dynamics 3

T.M.5021: Methods of research 3

P.H.P6540: Dynamics of planning 3

Electives (O.T. and P.H.) 4

13

SECOND YEAR

AUTUMN TERM POINTS

H.P.M8500: Interdisciplinary collaboration 3

O.T.M8103: Supervision 3

O.T.M8110: Thesis seminar 1

Electives (P.H.) 6

Electives (O.T.) 3

16

SECOND YEAR

SPRING TERM POINTS

O.T.M8112: Master's thesis 4

Electives (O.T.) 2

Electives (P.H.) 6

Electives (O.T. *or* P.H.) 315



Hospitals and Agencies Affiliated for Field Work Education

The following clinical centers, together with students in the program and faculty members, constitute the Occupational Therapy Clinical Council of Columbia University. Placements in field work are chosen from among these centers.

A. HARRY MOORE LABORATORY SCHOOL,
JERSEY CITY, N.J.

Constance Clerk
Principal

Michael Hahn, M.D.
Attending Orthopedic Physician
Dorothy McD. Ftikas, O.T.R.
Chief Occupational Therapist

BELLEVUE HOSPITAL CENTER, NEW
YORK, N.Y.

Valery Lanyi, M.D.
Medical Director

Mary Susnjara
Administrative Director
Dorothy Bergeron, M.A., O.T.R.
*Chief Occupational
Therapist/Coordinating Manager*

BETH ABRAHAM HOSPITAL, BRONX, N.Y.
William Frohlich
Director

Flora Tabaddor, M.D.
Director, Rehabilitation Medicine
Helena Schanzer, M.S., O.T.R.
*Chief Occupational Therapist
Rehabilitation Coordinator*

Nancy Selsky, O.T.R.
Student Supervisor

BETH ISRAEL MEDICAL CENTER, NEW
YORK, N.Y.

Robert G. Newman, M.D.
Director

Charles Barron, M.D.
Chief, Psychiatry
Liz Furman, O.T.R.
Activities Supervisor, Psychiatry

BLYTHEDALE CHILDREN'S HOSPITAL,
VALHALLA, N.Y.

Robert Stone
Administrator
Niels L. Low, M.D.
Clinical Director

Yasoma B. Challenor, M.D.
Chief, Rehabilitation Medicine
Susan Killingbeck, O.T.R.
Director, Occupational Therapy
Maureen Studdert, O.T.R.
Student Program Coordinator

BRONX MUNICIPAL HOSPITAL CENTER,
JACOBI HOSPITAL, AND KENNEDY
CENTER, BRONX, N.Y.

Matei S. Roussan, M.D.
*Professor and Chairman, Department
of Rehabilitation Medicine*
Harold March, M.D.
*Director, Department of Rehabilitation
Medicine*

Arnold Merriam, M.D.
*Director, Hospital Services, Department
of Psychiatry*

Susan O. Gans, M.S., O.T.R.,
F.A.O.T.A.
*Director, Occupational Therapy,
Physical Disabilities and Pediatrics*
Maria Scaros-Mercardo, M.A., R.T.D.
Director, Activity Therapy (Psychiatry)

BRUNSWICK HOSPITAL CENTER,
AMITYVILLE, N.Y.

Douglas Stein, M.D.
*Director, Physical Medicine and
Rehabilitation*

Susan Wick, O.T.R.
Chief Occupational Therapist

BURKE REHABILITATION CENTER,
WHITE PLAINS, N.Y.

Fletcher H. McDowell, M.D.
Executive Medical Director

Peter H. Stern, M.D.
Director, Rehabilitation Medicine

Eleanor Haid, M.S.Ed., O.T.R.
Director, Occupational Therapy

CHILDREN'S HOSPITAL-SAN DIEGO, SAN
DIEGO, CA.

Anna Edwards, M.A., P.T.
*Director, Occupational and Physical
Therapy*

Sara Wells, O.T.R.
Supervisor, Occupational Therapy

CHILDREN'S REHABILITATION CENTER
OF ULSTER COUNTY, KINGSTON, N.Y.

Michael Parker, M.D.
Medical Director

Alfred Frontera, M.D.
*Supervisor, Occupational and Physical
Therapy*

Donna Gjurovich, O.T.R.
Chief Occupational Therapist

CLOVE LAKES NURSING HOME AND
HEALTH RELATED FACILITY, STATEN
ISLAND, N.Y.

N. Demisay
Director

J. Dimant, M.D.
Medical Director

Patricia Scott-Sadownick, M.S.,
O.T.R.
Chief Occupational Therapist

FORT WASHINGTON SENIOR CENTER,
NEW YORK, N.Y.

Fern Hertzberg
Executive Director

GARDEN STATE REHABILITATION
HOSPITAL, TOMS RIVER, N.J.

David Donin
Administrator

Jeffery Brunstein, M.D.
Medical Director

Julie Metcalf, O.T.R.
Chief Occupational Therapist

Kim Adamshick, O.T.R.
Fieldwork Coordinator

GOLDWATER MEMORIAL HOSPITAL, NEW
YORK, N.Y.

Samuel Lehrfeld
Acting Executive Director

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Carlotta Kip, M.S., O.T.R.
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Sandra Levine Finkel, M.A., O.T.R.
Chief Occupational Therapist

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Chief, Occupational Therapy

Payne Whitney Psychiatric Clinic

Robert Michels, M.D.
*Chairman, Department of
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 F.A.O.T.A.
Director, Therapeutic Activities

Westchester Division

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Elissa Lang, C.R.C., M.Ed.
*Director, Department of Therapeutic
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Judith Carlen, M.S., O.T.R.
*Coordinator of Training,
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Coler Memorial Hospital, Roosevelt
 Island, New York, N.Y.

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*Director, Department of
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 Nina Ilyinsky, O.T.R.
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John Oldham, M.D.
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Mark Russakoff, M.D.
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Barbara Bouley, M.A., O.T.R.
Head Occupational Therapist

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Department of Medicine, Section of
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*Section Chief, Physical Medicine and
 Rehabilitation*

Linda Morgan, O.T.R.
*Director, Physical Medicine and
 Rehabilitation Services*

Lori Rogow, O.T.R.
Chief, Occupational Therapy

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Department of Orthopedics
 Marianne Hedl, M.S., O.T.R.
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OVERLOOK HOSPITAL, SUMMIT, N.J.

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*Occupational Therapist Mental Health
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REHABILITATION INSTITUTE, JOHN F.
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Keith Cicerone, Ph.D.
Clinical Director, Neuropsychology

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Emilio Ejercito, M.D.
Medical Director

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Chief Occupational Therapist

ST. LUKE'S-ROOSEVELT HOSPITAL
CENTER, NEW YORK, N.Y.

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Barbara Henryson, M.A., O.T.R.
*Director, Occupational Therapy and
Recreation Therapy, St. Luke's Site*

Elinor Cohen, O.T.R.
*Senior Occupational Therapist,
Roosevelt Site*

Rehabilitation Medicine

Patrick Fazzari, M.D.
Director

Audrey Ehrmann, M.S., O.T.R.
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Roosevelt Site*

Marsha Kleinberg, O.T.R.
*Senior Occupational Therapist, St.
Luke's Site*

ST. MARY HOSPITAL, HOBOKEN, N.J.

Thomas Schember
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Manager, Occupational Therapy

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CENTER OF NEW YORK, NEW YORK, N.Y.

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Anne Mazur Robinson, M.A., O.T.R.
*Chief, Therapeutic Activities and
Vocational Rehabilitation Service,
Department of Psychiatry*

Samuel Sverdluk, M.D.
*Director, Physical Medicine and
Rehabilitation Department*

Helene Lee, M.A., O.T.R.
*Chief Occupational Therapist, Physical
Medicine and Rehabilitation*

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Lois Pernice
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Dorie Pease, O.T.R.
*Supervisor, Occupational Therapy
Student Program*

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Debra J. Schenk, M.S., O.T.R.
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THE PRESBYTERIAN HOSPITAL, NEW
YORK, N.Y.

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John Downey, M.D.
*Chairman, Department of
Rehabilitation Medicine*

Karyn Epstein
Acting Chief Occupational Therapist

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CITY, MANHATTAN CHILDREN'S
PROGRAM, NEW YORK, N.Y.

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Director of Program

Alfred Scherzer, M.D.
Medical Director

Judy Feder, O.T.R.
Supervising Occupational Therapist

UNIVERSITY HOSPITAL, STONY BROOK,
N.Y.

John Marburger
President, S.U.N.Y., Stonybrook

Tom Sansone
Chief Physical Therapist

Joan Riga Grilli, O.T.R.
*Supervisor, Occupational Therapy,
Physical Dysfunction*

Francine Smith, O.T.R.
Supervising Occupational Therapist

WESTMORELAND HOSPITAL,
COMMUNITY MENTAL HEALTH CENTER,
GREENSBURG, PA.

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Linda Martin
Acting Administrator

Kimberly Domer, O.T.R./L
*Director of In-patient Occupational
Therapy Department*

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CENTER, VALHALLA, N.Y.

Mental Retardation Institute

Ansley Bacon
Executive Director

William Levinson, M.D.
Medical Director

Chris Moreland, M.S., O.T.R.
Director, Occupational Therapy

Student Life

Students entering the Program in Physical Therapy and the Programs in Occupational Therapy come from diverse educational and experiential backgrounds. Whereas some students come to the programs directly after having received a baccalaureate degree, others are making career changes, and some are returning to college after raising a family. Common factors shared by all students are the willingness to grow and learn and to direct themselves emotionally and intellectually to becoming highly qualified, competent health care professionals.

ACADEMIC, CLINICAL, AND RESEARCH FACILITIES

Classrooms and laboratories are within the three-block radius of the medical center complex. One main classroom serves as a laboratory practice area. The close proximity of the educational programs to adjacent hospital facilities offers the advantage of scheduling selected classes where students may observe and participate in clinical activities. Students may enroll in elective courses at Columbia's Morningside campus, an easy commute by subway, bus, or shuttle. The Morningside campus is located fifty blocks south of the medical center.

The New York metropolitan area is rich in clinical facilities and agencies where students are assigned for clerkships and fieldwork experiences. An unequalled variety of hospitals, rehabilitation centers, private clinics, specialty facilities, community agencies, and programs are available to provide students with supervised learning experiences. The location of the Programs in the midst of ongoing research activities fosters the development of research interests in students.

Opportunities for individual and collaborative research are available.

LIBRARIES

The Augustus Long Library, occupying four floors of the Hammer Health Sciences Center, is one of the largest medical center libraries in the United States. It serves the needs of faculty members, students, and researchers in the various health science disciplines. With close to 390,000 volumes, the library also receives over 3,300 current journals, has a significant rare books and special collections section, a large media center with over 1,500 programs, and a variety of audio-visual playback equipment, preview rooms, and other viewing facilities. In addition to traditional reference sources, the library offers computerized literature searching on several databases, including MEDLARS. The library is currently developing CLIO (Columbia Libraries Information Online) to computerize all library holdings and services on a university-wide basis. Directly behind the Hammer Health Sciences Center is the New York State Psychiatric Institute, which houses its own special collection.

Other Columbia libraries, located on the Morningside campus at 116th Street, are open to all students and faculty members who carry Columbia identification cards. The main collection is located in Butler Library; special and departmental collections are housed in other buildings on the Morningside campus.

ATHLETIC FACILITIES

At the Health Sciences Campus. The newly-renovated Bard Athletic Club

located in Bard Hall encompasses a 20-yard swimming pool, three squash courts, a gymnasium, an exercise room, Nautilus and Universal exercise equipment, stationary bicycles and rowing machines, lockers, showers, and saunas. The facility is handicapped accessible. A number of special programs are available, including basketball and volleyball leagues, aerobic exercise classes, and a squash ladder. Membership is open to all Health Sciences students at no charge. Public tennis courts are available at West 165th Street and Riverside Park.

At the Morningside Campus. The Marcellus Hartley Dodge Physical Fitness Center features two full-size gyms, two swimming pools, seventeen squash and handball courts, fully equipped exercise and weight rooms, a judo-karate room, a fencing room, a wrestling room, an indoor track, and two saunas. Also on campus are four tennis courts and a platform tennis court.

Baker Field. Columbia's principal outdoor athletic facility, located at the northern tip of Manhattan, features a football field, soccer field, running track, seven tennis courts, and several practice fields.

OTHER STUDENT SERVICES

Students enrolled on the Health Sciences campus may join various activities sponsored by the P & S Club, such as the Bard Hall Players (a very active theatre group), coffeehouse cabarets, and moonlight cruises.

Clubtix. Clubtix offers savings on seats to many Broadway and Off-Broadway shows, as well as discounts on restaurants. Good tickets for opera, plays, ballet, concerts, and sports events may also be purchased.

Disabled Student Service. Columbia University admits qualified handicapped students in accordance with

the requirements of Section 504 of the Rehabilitation Act of 1973. Campus facilities have been designed or modified to meet the needs of individuals with permanent or temporary disabling conditions.

Shuttle Service Available to Students. A shuttle bus runs between the Health Sciences Campus, Morningside Campus, and Harlem Hospital at regular intervals during the day and evening hours at no cost to the student. In addition, the Health Sciences Security Office provides transportation to students between the hours of 6:00 P.M. and 8:00 A.M. to adjacent residential buildings, Medical Center facilities, the George Washington Bridge Bus Terminal, and other locations within the local Medical Center vicinity.

The Medical Center Bookstore. The Bookstore is located in the William Black Building on the Health Sciences campus. Required textbooks may be purchased there as well as miscellaneous educational supplies.

All students enrolled in programs on the Health Sciences campus are also entitled to the privileges and facilities of the Morningside campus at 116th Street and Broadway.

THE HEALTH SCIENCES CAMPUS AND NEW YORK CITY

The Health Sciences campus is within easy reach of New York City's myriad attractions. Lincoln Center for the Performing Arts, the theatre district, Greenwich Village, Wall Street, a variety of museums—the Metropolitan Museum of Art, the Museum of Natural History, the Museum of Modern Art, to name a few—Fifth Avenue, Little Italy, and Chinatown are all a brief trip away by bus or subway. Within a one-hour drive from campus are outstanding ski resorts, beaches, and camping and hiking grounds.

Students may ski at Great Gorge, swim at the New Jersey Shore or Long Island's many beaches, or picnic and hike at Bear Mountain State Park.

The prospect of living in New York offers a special challenge to students. For the health professional, it has a unique patient population and the opportunity to learn about the problems of health care delivery in a variety of urban settings. As a cultural

and artistic center, the city is unrivaled. Students accommodate quickly to the public transportation system and follow sensible precautions that minimize the problems of urban living. They move freely around the city to enjoy all that New York offers—unmatched sightseeing, wonderful entertainment, unique cultural opportunities, and unlimited educational resources.

Registration and Expenses

REGISTRATION

Before attending University courses, each student must register in person during the registration period (see *Academic Calendar*). The registration procedure is as follows:

1. Students report to the Administrative Offices of Physical Therapy and Occupational Therapy at the College of Physicians and Surgeons, 630 West 168th Street, and fill out various forms giving information required for University records.
2. They have their programs approved by the Director.
3. They take their completed forms to the Office of Student Information Services, sign a Retail Installment Credit Agreement, and pay their fees, if desired, in the Student Accounting Division. (For more detailed information, see Fees.)

The Office of Student Information Services is open Monday through Friday, 10:30 a.m. to 4:30 p.m. (Wednesdays to 6 p.m.).

All students are asked to give their Social Security number when registering in the University. However, a Social Security number is required of international students *only* when those students will be receiving payment from the University. International students should consult the Office of International Student Services, 208 Lewisohn, for further information. Other students who do not have a Social Security number should obtain it from their local Social Security office *well in advance of registration*.

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go

to the International Student Adviser with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

English Language Placement Test

Students whose first language is not English must take the English Language Placement Test before they register for courses. Performance on this examination determines whether or not further training in the language is needed. Students who do not meet the standards of the University may be required to follow a program of English before beginning professional courses or, if time permits, in conjunction with professional courses. No point credit is given for these courses, and their addition to the program of study lengthens the time necessary to earn the degree.

An appointment to take this test may be made in person at the Office of the American Language Program, 505 Lewisohn, on the main campus at 116th Street and Broadway. To obtain the test results, the student should consult the adviser for the English for International Students Program, 505 Lewisohn.

Changes in Programs of Study

Once registered, students may drop or add courses or change sections by filing a formal change-of-program application with the Office of Student Information Services during the change-of-program period each term (see *Academic Calendar*). All such changes must first be approved by each student's adviser.

Students may drop courses *after* the change-of-program period by fol

lowing the same procedure; however, for courses dropped after the last day for change of program in each term, no adjustment of tuition will be made. Autumn term courses may be dropped no later than November fourth, spring courses no later than March twenty-fourth. *Failure to attend classes or unofficial notification to the instructor does not constitute dropping a course and will result in a failing grade in the course.*

AUDITING COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the Summer Session) in any division of the University without charge by filing a formal application in the Office of Student Information Services (Black Building, Room 141) during the change-of-program period. Applications require (a) the certification of the Office that the student is eligible to audit and (b) the approval of the dean of the school in which the courses are offered.

Elementary language courses, laboratory courses, studio courses, applied music courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

GRADES AND CREDIT

The student's performance in a course is reported according to the following grades (may be suffixed by + or -): A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree and accepted as the basis for advancement to a higher

course. A student who receives a mark of F in a required course must repeat that course, and may do so only one time.

The mark of ABS (absent) is given only to those students whose attendance and progress have been satisfactory throughout the term and who for imperative reasons are unable to take the final examination. Permission to be absent from the final examination must be granted by the instructor not later than the day of the examination. If the ABS is not removed by the end of the following academic year, it will remain as an ABS on the transcript.

The mark of INC (incomplete) is given only to a student who requests it from the instructor in writing and who has satisfactorily met all the requirements of a course but who has been compelled for reasons beyond his or her control to postpone certain assigned papers or reports. If the outstanding work is not completed within one calendar year from the date of the end of term in which the incomplete was received, the grade will remain as a permanent incomplete on the transcript. If the assignments are completed within the year and a grade submitted, the INC will be deleted and the final grade entered in the permanent grade column.

The mark of P (passed) is given for clinical and field work education. A limited number of other courses are offered for a P (passed) or H (honors) for outstanding achievement.

The mark of R (registered for the course; no qualitative grade assigned) is given only to those students who indicate, when they register, their intention to take the course for R credit or who file notice of change of intention with the Office of Student Information Services no later than the last day for change of program. If a student registers for R credit, he or she is not required to take examinations, write papers, or otherwise do the required work of the course. Students

may elect R credit only for courses in excess of degree requirements. It should be understood that degree credit for such courses will not be awarded and that courses taken for R credit may not be repeated for examination credit.

Academic Standards of Physical Therapy

Full-time students can expect to complete the program in two academic years and the intervening summer. In order to continue in good standing, students, whether enrolled full- or part-time, must maintain a cumulative grade-point average of B- (2.67 points).^{*} Students who fall below this average will be placed on academic probation. To continue in the program the student must restore his or her cumulative grade-point average to B- by the end of the following term. A student failing more than one course in one term may not continue in the program. Any student enrolled must complete at least one third (20 points) of the program in the academic year in order to maintain satisfactory progress. Transcripts of students' records are issued at the end of each term. In instances where a student may withdraw from the program, be granted a leave of absence, or interrupt the program of study because of mitigating circumstances, a determination of satisfactory progress will be subject to faculty review.

The records of students receiving a C grade are also subject to review. The result could be denial of permission to register for further study in the physical therapy program. A stu-

dent receiving 6 points of C in required courses in one term may be required to repeat those courses before being permitted to advance to the next level of professional courses or to clinical work. No more than 4 points of C may be credited toward a degree. A student receiving more than 4 points of C may be subject to dismissal from the program.

Required courses may not be taken for pass/fail unless they are specifically designated or unless individual permission is obtained from the physical therapy faculty.

Elective courses offered by Columbia University may be taken for pass/fail or for a letter of grade. The students' selection of either grade option is subject to the instructor's approval during the first three class sessions.

Academic Standards for Occupational Therapy

ENTRY-LEVEL STUDENTS

Full-time students can expect to complete the program in twenty-four calendar months and part-time students in thirty-six months. In order to continue in good standing, whether enrolled full- or part-time, students must maintain an average term grade of B- (2.67 points).^{*} Students who fall below this average will be placed on academic probation. To continue in the program the student must restore his or her cumulative average to B- by the end of the following term. A student failing more than one course may not continue in the program. All students must complete at least one fourth (15 points) of the program in an academic year in order to maintain satisfactory progress. Transcripts of students' records are issued at the end of each term. In instances where a student may withdraw from the program, be granted a leave of absence, or interrupt the program of study because of mitigating

^{*}In the computation of grade averages, quality points are awarded on the following scale: A+ = 4.33, A = 4.00, A- = 3.67, B+ = 3.33, B = 3.00, B- = 2.67, C+ = 2.33, C = 2.00, C- = 1.67, F = 0. The grades of P and H are not included.

circumstances, a determination of satisfactory progress will be subject to faculty review.

No more than 4 points of C- may be credited toward a degree; a student receiving more than 4 points of C- may be subject to dismissal from the program. The records of students receiving a grade of C or less are subject to faculty review. In treatment courses prerequisite to field work, the records of students receiving less than B- are subject to review prior to the practicum.

Required courses may not be taken for pass/fail unless they are specifically designated, or unless individual permission is obtained from the Director.

Elective courses offered by Columbia University may be taken for pass/fail or for a letter grade. The student's election of either grade option is subject to the instructor's approval. Students may transfer a maximum of 3 semester credits of elective graduate course work from another regionally accredited college or university toward satisfying their degree requirements. Courses must carry graduate credits and must be evaluated with a letter grade. Requests should be submitted in writing to the Director with a university catalog that contains the course description.

ADVANCED-LEVEL STUDENTS

Full-time students can expect to complete the program in twelve calendar months. Part-time students will progress according to the individual course load per term. In order to continue in good standing, whether enrolled full- or part-time, students must maintain a cumulative average of B (3.00 points).^{*} Students who

fall below this average will be placed on academic probation. To continue in the program the student must restore his or her cumulative average to B by the end of the following term. A student failing more than one course may not continue in the program. Any student enrolled full time must complete at least one-fourth (9 points) of the program in an academic year in order to maintain satisfactory progress. All part-time students must complete at least one-fifth of the program in an academic year in order to maintain satisfactory progress. Since part-time students must carry a minimum of 3 points a term on a continuous basis until all course work has been completed, the actual number of required points will be 9 a year for at least three of the five years permitted for completion of all degree requirements, including the thesis. Term grade reports are issued at the end of each term. In instances where a student may withdraw from the program, be granted a leave of absence, or interrupt the program of study because of mitigating circumstances, a determination of satisfactory progress will be subject to faculty review.

Required courses may not be taken for pass/fail unless individual permission is obtained from the Director.

FEES

The following fees are prescribed by statute and are subject to change at the discretion of the Trustees. The fees below are for the academic year 1988-1989.

University charges such as tuition, fees, and residence halls and board plans are due and payable in full by the date announced before the begin-

^{*}In the computation of grade averages, quality points are awarded on the following scale: A+ = 4.33, A = 4.00, A- = 3.67, B+ = 3.33, B = 3.00, B- = 2.67, C+ = 2.33, C = 2.00, C- = 1.67, F = 0. The grades of P and H are not included.

ning of each term.* The full amount of any charge may be paid when due without penalty or payment may be made in installments. If installment payments are made, a **FINANCE CHARGE** is assessed on amounts not paid by the due date on the initial bill received prior to registration and thereafter as indicated on subsequent monthly bills. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration which sets forth the terms and conditions of payment. All charges must be paid by the end of the term.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

In the event a diploma, certificate, or transcript is withheld because of an unpaid bill, a student will be **required** to use a certified check, money order, or cash to release any of the aforementioned documents.

Tuition

The following charges are in effect for the 1988–1989 academic year:

For all courses, per point	\$ 382
With the proviso that <i>each autumn and each spring term</i> the fee for a full-time program (15 to 19 points inclu- sive) is	\$5,727
For each point over 19	\$ 382
For summer clinical experience	12

Tuition for courses offered by Teachers College, which is not part of the Columbia University corporation, will be charged at the per point or course rate established by that school only for students registering for less than 15 points per term.

Health Service and Hospital Insurance Fees

The following fees are in effect for the 1988–1989 academic year:

For all full-time students	
Health service fee, per year (September 1–August 31)	\$400
Hospital year insurance premium, per year (September 1–August 31)	306

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium of the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry comparable hospital insurance, however, may waive this fee during registration. Part-time students are encouraged to participate in the combined health plan. Upon payment of additional fees, students can acquire the student health service and hospital insurance coverage for their dependents. Students should consult the Student Health Service for further information.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

Application for admission	\$40
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Late Registration Fees

During late registration	\$ 50
After late registration	100

*However, the newly admitted degree candidate in the Programs in Physical and Occupational Therapy is required by the Programs, upon acceptance, to submit an acceptance fee to reserve a place in the entering class. This amount is credited toward tuition when the student registers. See Admission Requirements for each program.

Adjustment Schedule

	MINIMUM TUITION RETAINED	PERCENTAGE OF REMAINING TUITION RETAINED
Up to and including dates specified above	\$40 or \$75	0
Following week	40 or 75	10
Second following week	40 or 75	20
Third following week	40 or 75	30
Fourth following week	40 or 75	45
Fifth following week	40 or 75	60
Sixth following week	40 or 75	75
Seventh following week	40 or 75	90
Eighth following week	40 or 75	100 (no adjustment)

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given term as opposed to dropping a portion of one's program (see *Registration and Expenses—Changes in Programs of Study*). If the student is under twenty-one years of age, his or her parent or guardian must first give consent in writing to the Director.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Office of Student Information Services receives the student's written notification. Application fees, late fees, and special fees are not subject to rebate. Up to and including the second Saturday after the first day of classes tuition will be retained in the following amount:

Full-time study	\$75
Part-time study	40

After the second Saturday after the first day of classes in the term, the above amount is retained plus an additional percentage of the remaining tuition (as indicated in the schedule above) for each week, or part of a week, of the term up to the date on

which the student's written notice of withdrawal is received by the Office of Student Information Services. A student's financial assistance is adjusted to reflect reductions in the student's overall budget. Excess financial aid is restored proportionally to the funds from which it was drawn before a refund is given.

APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the doctoral degree) must file an application with the Office of Student Information Services, 630 West 168th Street. In the 1988–1989 academic year, the last day to file for an October degree is August 5; for a January degree, October 28; and for a May degree, February 21. A late fee of \$50 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 8 for October degrees, December 2 for January degrees, March 31 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which

he or she has made application, the student may renew the application. A \$50 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above).

REQUESTS FOR TRANSCRIPTS

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Information Services, 630 West 168th Street, New York, N.Y. 10032. *Official* copies will be sent directly by the University only to an official address such as another university, a business firm, or government agency. However students or alumni may request that unofficial copies of their transcripts (stamped "Student Copy") be sent directly to them.

There is a charge of \$5 a copy for each transcript requested for \$5 for the first copy plus \$1 for each additional copy when requested at the same time. A maximum of \$20 is charged for fifteen or more transcripts ordered at one time. There is no charge for intra-University copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

ESTIMATED EXPENSES

Estimated expenses for full-time students are outlined below. Tuition for part-time students will be \$382 a point; part-time students are encouraged to participate in the health and hospital plans.

The listed monthly living expenses represent an estimated cost of maintaining a modest but adequate standard of living during the 1988-1989 academic year. Living expenses during the summer clinical practice periods vary depending upon the accommodations provided by the facilities to which the student is assigned. It will be the student's responsibility to meet living expenses during the summer clinical practice periods.

In occupational therapy, fees for materials and equipment in laboratory classes are payable at the time of registration and are subject to change in accordance with market prices.

The University advises each student to open an account in one of the local banks as soon as he or she arrives in New York City. Since it often takes as long as three weeks for the first deposits to clear, the student should cover immediate expenses by bringing travelers' checks or a draft drawn on a local bank. Tuition and room rent may be paid by personal check.

DINING SERVICES

Health Sciences Campus

Dining services in Bard Hall are open to all students on a cash basis or with the use of a prepaid discretionary card. The facility is open during the autumn and spring terms, Monday through Friday, excluding academic holidays. Private parties may be arranged through the Bard Hall Food Service. Detailed dining service information is sent to students over the summer. For further information, you may call Food Services at (212) 305-6860.

Meals are also available in Presbyterian Hospital cafeteria every day of the year, including weekends and academic holidays, on a cash basis.

The University has no formal dining requirements, allowing students the flexibility of eating when and where they choose.

University Expenses (Per Year) (Subject to Change)**PHYSICAL THERAPY**

	M.S. DEGREE PROGRAMS	
	FIRST YEAR	SECOND YEAR
Tuition: autumn and spring	\$11,454	\$7,256†
Summer clinical fee	12	—
Student health fee	400	400
Blue Cross fee (if applicable)	306	306
Books and supplies	1,500	900
Transportation to clinical courses*	75	350
Malpractice insurance	30	30
TOTAL	\$13,777	\$9,242

†Based on 15–19 credits first semester and 4 credits second semester.

*Expenses for summer clinical affiliation not included.

OCCUPATIONAL THERAPY

	M.S. DEGREE PROGRAMS	
	FIRST YEAR	SECOND YEAR
Tuition: autumn and spring	\$11,454	\$11,454
Summer clinical fee	12	12
Student health fee	400	400
Blue Cross fee (if applicable)	306	306
Books and supplies	775	675
Transportation to clinical courses*	140	150
Malpractice insurance	30	30
TOTAL	\$13,117	\$13,027

*Expenses for summer clinical affiliation not included.

Living Expenses (Per Month)

	SINGLE STUDENT		MARRIED STUDENT
	RESIDENCE HALLS	OFF-CAMPUS	
Room and Board	\$665	\$760	\$1,085
Personal Expenses	190	190	295
TOTAL	\$855	\$950	\$1,380

HOUSING**Health Sciences Campus**

The University provides limited housing for graduate students who are regularly registered for an approved program of full-time academic work.

Housing is coordinated through the Columbia University Health Sciences Central Housing Office, 50 Haven Avenue, New York, N.Y. 10032.

DORMITORIES

Rooms are usually for single occupancy and are furnished. A cafeteria, lounge areas, and recreational facilities, including a swimming pool, are available. Twenty-four-hour security service is provided.

APARTMENTS

154 Haven Avenue, N.Y.—Newly renovated building with furnished stu-

dio apartments, including kitchenette and bathroom. Security service currently provided from 6 p.m. to 8 a.m.

Bard Haven Tower I, 60 Haven Avenue, N.Y.—One- to three-bedroom apartments are available to students, with preference given to married students. Apartments are unfurnished and include complete kitchens. Fourteen-hour doorman service is provided.

Bard Haven Towers II and III, 100 Haven Avenue, N.Y.—Adjacent and identical to Tower I.

106 Haven Avenue—Six-story building with one- to two-bedroom unfurnished apartments. Apartments have full kitchens and bathrooms. No elevator service and no security service are provided.

Detailed information on University-managed housing, including specific locations and costs, together with a housing application, will be mailed to all students accepted into the Physical Therapy and Occupational Therapy programs, usually by the beginning of the summer.

OFF-CAMPUS APARTMENTS

In addition to Columbia University housing, off-campus accommodations are owned and operated by landlords other than the University and are not subject to inspection or approval by the University. The Off-Campus Housing Office located in the William Black Building, 630 West 168th Street, New York, NY 10032, maintains an inventory of off-campus apartments for a 30-square block area surrounding the Health Sciences Campus.

FINANCIAL AID

The financial aid policies for the Program in Physical Therapy and the Programs in Occupational Therapy are designed to assist students who have demonstrated need to secure funds to help pay their education-related expenses. Demonstrated need is defined as the difference between anticipated expenses and financial resources.

As with all need-based programs, the *primary* responsibility for meeting educational costs rests with the student and his or her family. The ability of the family and student to contribute to these costs is determined by the Financial Aid Office in conjunction with the Graduate and Professional Financial Aid Service (GAPSFAS), a federally approved needs-analysis service. Applicants must complete a GAPSFAS application, which is mailed to the student together with his or her letter of acceptance and the financial aid policy statement. The deadline for submission of the GAPSFAS application is April 15. Students admitted after this date should file the form within two weeks of notification of admission.

Applicants are required to borrow the maximum permissible amount of federal or state loan as a *secondary source* of support. The Guaranteed Student Loan, the Tuition Assistance Program of the State of New York, and other state scholarships are considered available resources to eligible students when computing a student's scholarship aid. These programs are described under Types of Assistance.

Students are urged to apply for outside scholarship assistance. Outside sources are listed under "Other Sources of Aid." Any aid received is included as part of a student's contribution.

Finally, after taking the student and/or family contribution and federal and state aid into consideration, *awards are made by the University based upon a student's remaining need.* The amounts of loan and/or scholarship will be determined by the availability of funds and eligibility guidelines within each program.

Further details about the application process for financial aid are available for all applicants through the Financial Aid Office.

Citizens of foreign countries, except those with Permanent Resident Status, are not eligible for federal or state financial assistance.

TYPES OF ASSISTANCE

Scholarships

STATE AWARDS

Students are expected to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. In New York State, the Tuition Assistance Program (TAP) is a resource available to legal residents. The amount of the award is based on the net taxable balance of the student's income and the income of those responsible for his or her support, as reported on the New York State income tax return for the previous calendar year. Additional information and an application may be obtained by writing to New York State Higher Education Services Corporation, Division of Awards and Loan Services, 99 Washington Avenue, Albany, N.Y. 12255.

PROGRAM AWARDS

A limited number of scholarships are awarded annually from University funds to full-time students. The amounts of these scholarships vary from year to year, depending upon the availability of funds and student need. Applicants do not apply for

these funds directly, but follow the procedures detailed in their acceptance packets.

Restricted Columbia Scholarships

Several scholarships from the University, the Program in Physical Therapy, and the Programs in Occupational Therapy are available only to students who meet specific criteria. Applicants must have documented financial need in order to be eligible.

The Alumni Association of the Programs in Occupational Therapy assists students with the following awards: Tuition scholarships ranging from \$1,000–\$5,000 for incoming students; Life Experience awards ranging from \$250–\$1,000 to incoming students age 35 and over; and Franciscus Fund awards of \$1,000 each consisting of a \$500 scholarship and a \$500 interest-free loan, to both incoming and second-year students who meet eligibility requirements. Students will be advised of application procedures after acceptance.

The Alumni Association of the Program in Physical Therapy makes annual awards of \$1,000 each, consisting of a \$500 scholarship and a \$500 interest-free loan, to Physical Therapy students who meet eligibility requirements. Students will be advised of application procedures after acceptance.

The following are other restricted fellowships and awards.

Roberts-Chamberlain Scholarship Awards. Applicants must have been born in the state of Iowa, must have graduated from a college or university of Iowa, and should have the intention of returning to Iowa for two years upon completion of studies.

George W. Ellis Fellowships. Applicants must be residents of the state of Vermont, or must have been graduated from a college or university in the state of Vermont.

Leta Stetter Hollingworth Fellowships. Applicants must be women graduates of the University of Nebraska, nominated by the faculty of that University with preference given to Nebraskans.

Paul Nichoplas Scholarship. Applicants must be male students of Greek extraction or male students born in Greece and graduated from any Greek College or University.

Clifford and Siegfried Upton Scholarships. Applicants must be children of employees of D. C. Heath and Company of Lexington, Massachusetts.

Westmoreland Davis Fellowships. Applicants must be men from Virginia.

Education Loan Programs

Loans available to graduate students are provided by various sources, including the federal and state governments, the University, and private agencies.

GUARANTEED STUDENT LOAN

The Guaranteed Student Loan (GSL) is a federally subsidized, federally insured loan obtained through a bank, credit union, savings and loan association, or other participating lenders to students with demonstrated need to help meet their educational expenses.

Students who apply for the GSL are subject to a needs test to determine their eligibility. Current information on eligibility requirements and loan limits is mailed to accepted students and is available through the Financial Aid Office. The total amount borrowed in any academic year may not exceed the cost of attendance when combined with other available resources and financial aid awarded through the University.

SUPPLEMENTAL LOAN FOR STUDENTS

The Supplemental Loan for Students (SLS, formerly known as ALAS) is available to graduate students

through participating lenders (banks, savings and loan associations, credit unions, etc.). In New York State, this loan must be taken at the same bank as the GSL. This rule may apply in other states. Students who are not New York State residents should be able to obtain an SLS at a bank in New York if they are unable to borrow from their local lender. The loan is insured and guaranteed by the U.S. government; however, it is not subsidized. Interest is charged at a variable rate of 3.75 percent above the 91-day Treasury Bill rate, with a cap of 12 percent. Full-time students must make interest payments while in school; half-time students, in addition to making interest payments while in school, must also begin repayment of principal. A needs test is not required.

To qualify for the GSL and SLS programs, students must maintain satisfactory academic progress, must not be in default for prior educational indebtedness, and must not owe a refund to the Title IV funds from a previous educational program.

Regulations for the GSL and SLS programs are subject to change by the U.S. Congress.

PERKINS LOANS

The Perkins Loans (formerly called NDSL) are made to students from a fund supported by the Federal Government, Columbia University, and repayment of previous loans. Individual schools are responsible for determining both the recipients of such funds and the amounts to be awarded. Loans are currently awarded only to eligible full-time students. The present interest rate is 5 percent.

SHARE AND GRADSHARE

SHARE and GradSHARE are two separate loan programs which offer students and families education loans with flexible repayment terms. Proceeds of both loan programs must be used solely for educational expenses

at one of the thirty member institutions of the Consortium on Financing Higher Education (COFHE). This program uses no government funds; it is supported entirely through private resources.

SHARE loans are based on current creditworthiness of the applicant(s). (A parent, sibling, spouse, or other responsible person is often the primary borrower.) Annual loan amounts range from \$2,000 to \$20,000. The school determines the maximum eligibility.

GradSHARE loans are specifically for graduate and professional students. Eligibility is based on potential future earnings, not on current creditworthiness. The annual loan amounts range from \$2,000 to \$7,500 for students borrowing on their own behalf. However, the total cumulative education debt limit which includes all outstanding undergraduate and graduate borrowings including *GradSHARE* is \$30,000 for students enrolled in the study of occupational therapy or physical therapy.

Applicants can choose either a monthly variable rate loan or a one-year renewable rate loan. Further information may be obtained from Nellie Mae, 50 Braintree Hill Park, Braintree, MA 02184.

Federally Supported College Work-Study Program

Students who have documented financial need are eligible to earn money through the College Work-Study Program (CWS) to help pay part of their educational expenses. Maximum earnings are assigned as part of the financial aid package. Students may apply for work at the University during the academic year. First-year students may apply for work-study during the summer preceding enrollment at the University. Interested students should contact

the Financial Aid Office for further information.

Other Sources of Aid

A limited number of scholarships are available in Occupational Therapy and Physical Therapy Programs by direct application to the agencies concerned.

NEW YORK STATE HEALTH SERVICE CORPS SCHOLARSHIPS

Under this program, the state will award scholarships for the professional study of Occupational Therapy and Physical Therapy to provide critically needed professionals in state facilities. The scholarships are competitive, based on academic performance, previous work experience, and a demonstrated interest in working with an institutional population. Awards can be as high as \$15,000 a year for two years to cover the cost of tuition, books, and living expenses. For each year of the scholarship, a recipient must agree to work in a state-operated mental health, mental retardation, or correctional facility for eighteen months. Employment will be in a professional capacity at prevailing State Civil Service salaries. Employment opportunities are available in all regions of the state.

Candidates must be enrolled, accepted, or have applied for full-time study in an approved program, a legal resident of New York State, or be attending school in New York State. For more information, write to: New York State Health Service Corps, New York State Department of Health, Corning Tower, Room 1602, Empire State Plaza, Albany, N.Y. 12237.

PROFESSIONAL OPPORTUNITY SCHOLARSHIPS

The New York State Regents is awarding scholarships up to \$5,000 annually for the study of physical ther-

apy or occupational therapy to eligible candidates in the following order of priority:

1. Candidate is economically disadvantaged and a minority group member historically underrepresented in the profession.
2. Candidate is a minority group member underrepresented in the profession.
3. Candidate completed undergraduate work through assistance from the HEOP, EOP, SEEK, or College Discovery opportunity programs.

For further information, write to: State Education Department, Bureau of Higher and Professional Educational Testing, Cultural Education Center, Empire State Plaza, Albany, N.Y. 12230.

VETERANS ADMINISTRATION HEALTH PROFESSIONAL SCHOLARSHIP PROGRAM

The Veterans Administration will award scholarships to students presently enrolled or accepted for enrollment in the study of physical therapy. The scholarship will provide tuition and fees, a monthly stipend of \$621, and an annual payment of up to \$525 for reasonable education expenses in exchange for a period of employment (approximately two years) upon graduation with a VA medical center, where needed. The awards are competitive and are based on academic performance, recommendation of the Physical Therapy Director, applicant's career goals, and work/volunteer health care experiences. For more information, write to: Veterans Administration, Scholarship Program (14 N), 810 Vermont Avenue, N.W., Washington, D.C. 20420.

STATEN ISLAND HOSPITAL TUITION ASSISTANCE PROGRAM

The Staten Island Hospital is offering \$10,000 scholarships to incoming Columbia University students who

have been accepted for enrollment in the study of occupational therapy. The scholarship funds are used to help pay tuition for the academic year, and may be renewed for a second year, subject to satisfactory academic performance. In exchange, the recipient must agree to work as an occupational therapist at The Staten Island Hospital for one year for each year of scholarship received. The award is competitive and is based on academic performance, letters of recommendation, and a personal interview at the facility. Detailed information is sent to all accepted students during the spring term.

The following organizations offer additional professional opportunity scholarships.

The National Association of Business Clubs, P.O. Box 5127, High Point, N.C. 27262. Awards are made to students training in various fields of corrective therapy, including occupational therapy and physical therapy.

The Schechter Foundation, % Paco Pharmaceutical Services, Inc., 535 Madison Avenue, New York, N.Y. 10022. Scholarship awards.

Jewish Foundation for Education of Women, 330 West 58th Street, New York, N.Y. 10019. Scholarships and/or loans.

The Roothbert Fund, Inc., 360 Park Avenue South, 15th Floor, New York, N.Y. 10010. Attention: The Secretary. Scholarship awards.

Hattie M. Strong Foundation, Inc., Suite 409, Cafritz Building, 1625 I Street, N.W., Washington, D.C. 20006. Interest-free loans.

American Mensa Education and Research Foundation, 1701 West 3rd Street, Brooklyn, N.Y. 11223. Scholarship awards.

Paul C. Rodenhauer, Grand Recorder/Secretary, Knights Templar

Educational Foundation, 14 East Jackson Boulevard, Suite 1700, Chicago, Ill. 60604. Student loans at 5 percent interest.

Career Advancement Scholarships (for women over 25)/Clairol Loving Care Scholarships (for women over 30), The Business and Professional Women's Foundation, 2021 Massachusetts Avenue, N.W., Washington, D.C. 20036.

The American Occupational Therapy Foundation, Inc., 1383 Piccard Drive, Suite 200, Wilco Building, Rockville, Md. 20852. Scholarship awards.

New York State Occupational Therapy Scholarship. To be applied for in conjunction with the Occupational Therapy Faculty at Columbia University during the spring term of the student's first year.

General Federation of Women's Clubs. Contact the Women's Club in your community.

After applying for admission, applicants are encouraged to apply to the organizations listed above, as well as to other private foundations and local service associations known personally to the student. In this way the applicant may not miss application deadlines, since many of these organizations require verification of acceptance/enrollment before consideration is given to a student's financial aid request. For additional references,

consult The Foundation Center Library, 79 Fifth Avenue, New York, N.Y. 10003.

STUDENT EMPLOYMENT

A student interested in earning part of his or her expenses by working part-time during the academic year, or either part- or full-time during the summer, should apply to the Office of Student Employment, 206 Lewi-sohn (on the Morningside campus).

Wives and Husbands of Students

Wives and husbands of students may register with the Office of Student Employment for term-time work. Those who are interested in full-time jobs on the campus should contact the University Personnel Office, 209 Dodge. Most of these jobs are clerical or secretarial in nature, usually requiring some typing and, in some instances, stenography as well. Regular full-time University employees are eligible for a limited number of points of tuition exemption provided they meet the stated requirements of the Supporting Staff Plan (a copy of which may be obtained from the University Personnel Office, 313 Dodge), as well as the admission requirements of the school or division in which they wish to enroll. Tuition-exempt courses are taken primarily in evening classes in the School of General Studies.

Official Regulations

RESERVATION OF UNIVERSITY RIGHTS

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

UNIVERSITY REGULATIONS

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see Auditing Courses, above). No student may register after the stated period unless he

or she obtains the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid charges to the University.

Attendance and Length of Residence

No degree will be granted to a student who has not registered for and attended the University courses of instruction equivalent to at least one academic year of full-time work.

Students are held accountable for absences incurred owing to late enrollment and are expected to attend punctually each class or laboratory exercise in each course. For credit toward the degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the Academic Calendar. (See *Academic Calendar* for dates of religious holidays.)

Where scheduling conflicts prove unavoidable, no student will be penalized for absence due to religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable ar-

rangement cannot be worked out between the student and the instructor involved, the appropriate dean or director should then be consulted. If an additional appeal is needed, it may be taken to the Provost.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt of academic credits, graduation, and the conferring of any degree are strictly subject to the disciplinary powers of the University.

A guide to student rights and responsibilities is available to occupational therapy and physical therapy students and provides details concerning the due process procedures.

RULES OF UNIVERSITY CONDUCT

The Rules of University Conduct (Chapter XLI of the Statutes of the University) provide special disciplinary rules applicable to demonstration, rallies, picketing, and the circulation of petitions. These rules are designed to protect the rights of free expression through peaceful demonstration while at the same time ensuring the proper functioning of the University and the protection of the rights of those who may be affected by such demonstrations.

The Rules of University Conduct are University-wide and supersede all other rules of any school or division. Minor violations of the Rules of Conduct are referred to the normal disciplinary procedures of each school or division ("Dean's discipline"). A student who is charged with a serious violation of the Rules has the option of choosing Dean's discipline or a more formal hearing procedure provided in the Rules.

All University faculty, students, and staff are responsible for compliance with the Rules of University Conduct. Copies of the full text are

available at the Office of the University Senate, 406 Low Memorial Library, at the Office of Student Information Services, 208 Philosophy, and at the Office of Student Activities, 206 Ferris Booth Hall.

STATEMENT OF NONDISCRIMINATORY POLICIES

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX and the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 or 45 C.F.R. may be referred to Ms. Rosalind S. Fink, the Director of the University Office of Equal Opportunity and Affirmative Action (305 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap

in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants. Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex, or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex, or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment. In addition, New York Human Rights Law, Article 15, Executive Law Section 296 prohibits discrimination in employment because of marital status.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1973, as amended, prohibits job discrimination and requires affirmative action to employ and advance

in employment qualified special disabled veterans and veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference, or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

DISCRIMINATION GRIEVANCE PROCEDURE

The University's Discrimination Grievance Procedure is available to enrolled students who feel that they have been the victims of sexual harassment or discrimination on the basis of race, religion, national or ethnic origin, sex, sexual orientation, marital status, age, handicap, or Vietnam Era or qualified special disabled veteran status. A copy of the Procedure is available in the Office of Equal Opportunity and Affirmative Action, 305 Low Memorial Library (280-5511).

A Complaint under this Procedure is initiated through completion of a Discrimination Complaint Form, also available in the Equal Opportunity Office. Staff in that Office will assist in completing the Form and also are available for confidential counseling and informal investigation of discrimination claims.

Protection Against Sexual Harassment

POLICY STATEMENT ON SEXUAL HARASSMENT

Federal Law [Title VII of the Civil Rights Act of 1964] provides that it shall be an unlawful discriminatory practice for any employer, because of the sex of any person, to discharge without just cause, to refuse to hire, or otherwise to discriminate against that person with respect to any matter directly or indirectly related to employment. Harassment of any employee on the basis of sex violates this federal law.

To help clarify what is unlawful sexual harassment the Federal Equal Employment Opportunity Commission has issued Guidelines on the subject. While the EEOC Guidelines apply only to faculty and other employees, the University prohibits sexual harassment of any member of the Columbia community, whether such harassment is aimed at students, faculty, or other employees, and violators will be subject to disciplinary action. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature will constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;
2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or,
3. such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive academic or working environment.

Any person who believes that he or she is being sexually harassed should seek a resolution of the problem through discussion with the person directly concerned. If this does not resolve the matter, or if there is a reluctance to deal directly with the person involved, the problem should then be brought to the attention of a member of the University Panel on Sexual Harassment. A list of current panelists follows. Advice may also be sought from the Office of Equal Opportunity and Affirmative Action (305 Low Library; 854-5511). If these steps have not resolved the problem, the applicable University grievance procedure should be used, including the University Discrimination Grievance Procedure that is available if no other University grievance procedure is specifically applicable. No one at the University may retaliate in any way against a person who makes a claim of sexual harassment.

CHARGE OF THE UNIVERSITY PANEL ON SEXUAL HARASSMENT

The Columbia Panel on Sexual Harassment is composed of trusted, accessible, and sympathetic members of the University community who act as mediators. Their goal is the protection and counseling of any member of the University who is made to feel personally pressured or uncomfortable because of the behavior of another University member who is in a position of power. Members of the Panel provide a safe, impartial, non-adversarial setting in which the problem can be considered or solved, through confidential counseling and, when requested, mediation between the complainant and the alleged ha-

rasser. The Panel thus provides guidance and protection for the accused as well, identifying false or mistaken accusations, misunderstandings, or unconscious behavior. Panel members finally become a link through which the University can take account of, and take appropriate action against, those on campus who are behaving illegally. The Panel on Sexual Harassment is thus a timely, protective, and compassionate arm of the University, one which not only sensitizes and educates the University community, but also demonstrates that University's commitment to fair treatment of all its members.

SEXUAL HARASSMENT COMPLAINT PROCEDURES

A. Going to a Panelist

1. A complainant comes to a Panel member with a complaint, to report an incident, or to seek advice.
2. The Panel member obtains data through discussion with the complainant, but keeps no records.
3. The Panel member selects one of the counseling or mediation options suggested by his or her training.

4. If the case seems serious enough, the Panel member refers it to the Equal Opportunity/Affirmative Action Office.

B. Initiating a Formal Investigation

1. A formal investigation may be initiated in either of the following ways:
 - a. A complainant files a formal grievance under the applicable University grievance procedure. This step may be taken at any time, either with or without consulting a Panel member.
 - b. A Panel member, believing that further action in a particular case might be appropriate, with the permission of the complainant, consults with the director of the EOAA office and the General Counsel or their designees. Consultations among the Panel member, General Counsel, and EOAA office may also occur in a case of multiple complaints.
2. All investigatory or formal actions taken will be conducted by the University and not the Panel.

PANEL MEMBERSHIP LIST*

Morningside

PROFESSIONAL SCHOOLS

Harry Arouh
Graduate School of
Journalism
Lecturer
607 Journalism
854-3328

Ann Bartel
Graduate School of
Business
Professor
710 Uris
854-4419

Phyllis Dain
School of Library Service
Professor
611 Butler Library
854-4032

Samuel Miller
School of Social Work
Associate Professor
711 McVickar
854-2735

Elliott Sclar
Graduate School of
Architecture, Planning,
and Preservation
Professor
 410 Avery
 854-3700

Howard Stein
School of the Arts
Professor
 605 Dodge
 854-3408

Malvin Teich
School of Engineering
and Applied Science
Professor
Electrical Engineering
 1332 Seeley W. Mudd
 854-3103, 3117

William Young
School of Law
Professor
 8W8 Law
 854-2645

ARTS AND SCIENCES

(Columbia College, Graduate School
 of Arts and Sciences, School of Gen-
 eral Studies, and School of Interna-
 tional and Public Affairs)

Eric Foner
Department of History
Professor
 620 Fayerweather, Box 16
 854-5253

Inge D. Halpert
Department of Germanic
Languages
Professor
 312 Hamilton
 854-3201, 5411

Thomas P. Bernstein
Department of Political
Science
Professor
 714 International Affairs
 854-3644

CENTRAL ADMINISTRATION

Mary Murphy
Deputy Vice President for
Student Services
 213 Low Library
 854-2857

University Libraries

Charling Fagan
Academic Information
Services Group
Acting Director
 317 Butler Library
 854-2245

Angela Giral
Librarian
 Avery Library
 854-3068

Lamont-Doherty Geological Observatory

Constance Sancetta
Senior Research Scientist
 Core Lab., Room 204
 Palisades, N.Y. 10964
 914-359-2900, Ext. 412

Nevis Laboratories

Allan Sachs
Professor of Physics
 P.O. Box 137
 Irvington, N.Y. 10533
 914-591-8100, Ext. 213

Health Sciences

Jeanette Coy
Harlem Hospital Center
Departmental
Administrator
 Obstetrics and Gynecology
 8111 King Pavilion
 491-1573, 1571

Marlene Klyvert
School of Dental and
Oral Surgery
Associate Professor
 Box 20 Physicians and
 Surgeons
 630 West 168th Street
 305-3573

Janet Jacobs-Cohen
School of Nursing
Assistant Professor
 617 West 168th Street,
 Rm. 122
 305-2809, 5654

Marion Murphy
Health Sciences
Administration
Departmental
Administrator
 Pediatrics
 Babies Hospital South
 1-104
 630 West 168th Street
 305-7175

Audrey Penn
College of Physicians
and Surgeons
Professor
 Neurology Department
 4-420
 630 West 168th Street
 305-3533

Virginia Rauh
School of Public Health
Assistant Professor
 Center for Population and
 Family Health
 60 Haven Avenue, B-3
 305-6960

Ethel Siris
College of Physicians
and Surgeons
Associate Professor of
Clinical Medicine
 Department of Medicine
 PH-124
 622 West 168th Street
 305-2529

*While Panelists are identified by location, school, or administrative areas on this list, each of them is in fact available to any member of the Columbia community. Persons who feel uncomfortable speaking with "their" Panelist(s) are encouraged to seek out a Panelist from elsewhere at the University.

Academic Calendar, 1988–1989

MAJOR RELIGIOUS HOLIDAYS

Rosh Hashanah
Monday, Tuesday, September 12, 13

Yom Kippur
Wednesday, September 21

First days of Succoth
Monday, Tuesday, September 26, 27

Concluding days of Succoth
Monday, Tuesday, October 3, 4

Good Friday
Friday, March 24

For a statement of University policy regarding religious holidays, see *Official Regulations*—Religious Holidays.

Some of the major holidays are listed below. The Jewish holy days begin at sundown of the preceding day.

First days of Passover
Thursday, Friday, April 20, 21

Concluding days of Passover
Wednesday, Thursday, April 26, 27

Shavouth
Friday, Saturday, June 9, 10

Id al Fitr
Thursday, May 16

Id al Adha
Tuesday, July 23

AUTUMN TERM, 1988

August	5	Friday. Last day to apply or reapply for October degrees and certificates (see September 8). A <i>late fee</i> must be paid by students who apply or reapply after this date for degrees and certificates to be awarded in October.
September	6	Tuesday. Registration.
	8	Thursday. Classes begin. Late registration begins. Last day to file <i>late</i> application or renewal of application for October degrees. Applications received after this date will automatically be applied to the next conferral date. A <i>late fee</i> must be paid by students allowed to register after this date.
	12	Monday. First day to change programs and apply to audit courses.
	16	Friday. Last day to change programs and apply to audit courses. No adjustment of fees for individual courses dropped after this date.

October	26	Wednesday. Conferring of October degrees.
	28	Friday. Last day to apply or reapply for January degrees (see December 2). <i>A late fee</i> must be paid by students who apply or reapply after this date for all degrees to be conferred in January.
November	4	Friday. Last day to drop individual courses.
	7	Monday. Academic holiday.
	8	Tuesday. Election Day. Holiday.
	24–27	Thursday, through Sunday. Thanksgiving holidays.
December	2	Friday. Last day to file <i>late</i> application or renewal of application for January degrees. Applications received after this date will automatically be applied to the next conferral date.
	14	Wednesday. Classes end.
	15	Thursday. Study day.
	16–23	Friday–Friday. Midyear course examinations. Term ends.
	24	Saturday through Wednesday, January 18, 1989. Winter holidays.

SPRING TERM, 1988

January	16	Monday. Martin Luther King, Jr., Day observed. University holiday.
	19	Thursday. Registration. <i>A late fee</i> must be paid by students allowed to register after this date.
	23	Monday. Classes begin.
	25	Wednesday. Conferring of January degrees and certificates.
	26	Thursday. First day to change programs and apply to audit courses.

February	1	Wednesday. Last day to change programs and apply to audit course. No adjustment of fees for individual courses dropped after this date.
	20	Monday. Washington's Birthday. Academic holiday.
	21	Tuesday. Last day to apply or reapply for May degrees (see March 31). A <i>late fee</i> must be paid by students who apply or reapply after this date for all degrees to be conferred in May.
March	5	Sunday. Annual Commemoration Service in St. Paul's Chapel.
	12-19	Sunday-Sunday. Spring holidays.
	24	Thursday. Last day to drop individual courses.
	31	Friday. Last day to file <i>late</i> application or renewal of application for May degrees. Application for May degrees. Applications received after this date will automatically be applied to the next conferral date.
April	26	Wednesday. Registration for the Summer Session.
May	3	Wednesday. Classes end.
	4	Thursday. Study day.
	5-12	Friday-Friday. Final course examination. Term ends.
COMMENCEMENT, 1989		
May	14	Sunday. Baccalaureate Service.
	17	Wednesday. Conferring of degrees and certificates.

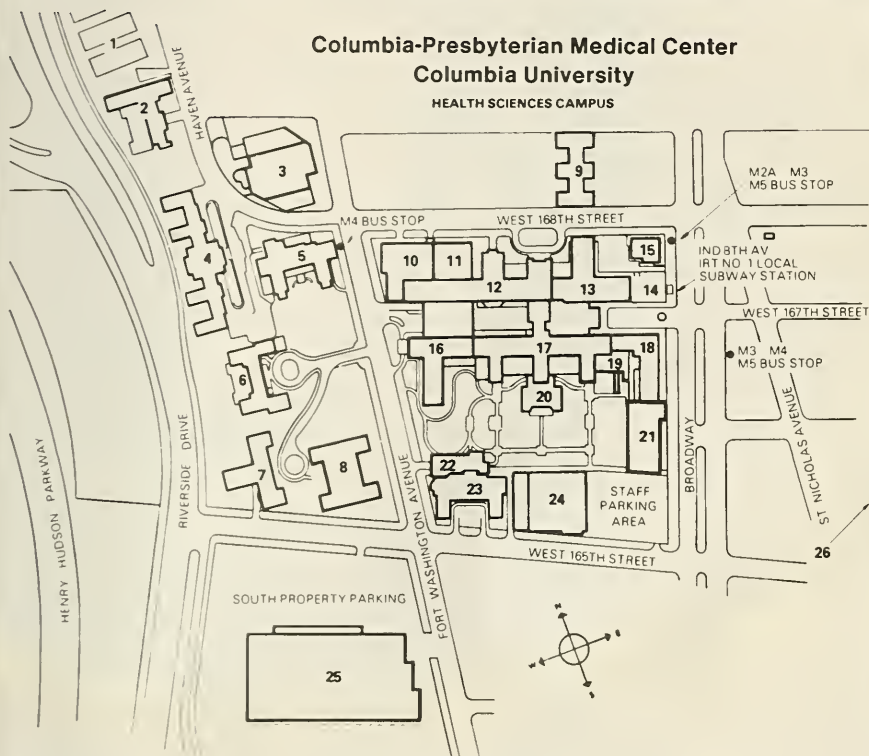
COLUMBIA UNIVERSITY

The Morningside Campus & Environs



Columbia-Presbyterian Medical Center Columbia University

HEALTH SCIENCES CAMPUS



- | | | |
|--|--|---|
| 11 Alumni Auditorium | 13 School of Dental and Oral Surgery | 6 Anna C. Maxwell Hall, School of Nursing Residence |
| 3 Augustus Long Library | 9 Georgian Nurses Residence | 5 The Neurological Institute of New York |
| 8 Dana W. Atchley Pavilion | 22 Edward S. Harkness Eye Institute | 6 School of Nursing |
| 18 The Babies Hospital | 23 Eye Institute Research Laboratories | 25 Parking facilities |
| 21 Babies Hospital Research, Teaching, and Office Addition | 7 Harkness Memorial Hall | 17 Presbyterian Hospital |
| 2 Bard Hall Medical Student Residence | 16 Harkness Pavilion | New York Orthopedic Hospital |
| 1 Bard Haven Towers | 20 Pauline A. Hartford Memorial Chapel | Sloane Hospital for Women |
| 10 William Black Medical Research Building | 3 Julius and Armand Hammer Health Sciences Center | Squier Urological Clinic |
| 3 Cancer Center/Institute of Cancer Research | 3 Institute of Human Nutrition | 4 New York State Psychiatric Institute |
| 24 Central Service Building | 2/12 International Institute for the Study of Human Reproduction | 4 Psychoanalytic Center |
| 12 College of Physicians and Surgeons | | 15 School of Public Health |
| 26 Center for Community Health Systems | | 19 Radiotherapy Center |
| | | 13 Vanderbilt Clinic |
| | | 14 Vanderbilt Clinic Addition |



Points of Interest in New York City

1. Baker Field
2. The Cloisters
3. Columbia-Presbyterian Medical Center
4. American Geographical Society
The Museum of the American Indian
The Hispanic Society of America
The American Numismatic Society
The Academy of Arts and Letters
5. City College of New York
6. Grant's Tomb
Riverside Park
7. Riverside Church
8. The Cathedral Church of St. John the Divine
9. Equity Library Theatre
10. Yankee Stadium
11. The Museum of the City of New York
12. The Guggenheim Museum
13. The Metropolitan Museum of Art
14. The American Museum of Natural History
Hayden Planetarium
15. The Whitney Museum
16. Gracie Mansion
17. Hunter College
18. The Frick Collection
19. Temple Emanu-El
20. Central Park Zoo
21. Lincoln Center for the Performing Arts
The Metropolitan Opera House
Avery Fisher Hall
Alice Tully Hall
New York State Theatre
Vivian Beaumont Theatre
The Juilliard School
The Library and Museum of Performing Arts
22. Carnegie Hall
23. Broadway Theatre District
24. Times Square
25. Port Authority Bus Terminal
26. Rockefeller Center
Radio City Music Hall
27. The Museum of Modern Art
28. St. Patrick's Cathedral
29. Grand Central Terminal
30. Chrysler Building
31. United Nations Headquarters
32. The New York Public Library
33. Jacob Javits Convention Center
34. Madison Square Garden
Pennsylvania Station
35. Pierpont Morgan Library
36. Empire State Building
37. St. Mark's Church
38. Washington Square Park
Greenwich Village
39. New York University
40. Lower East Side
41. Chinatown
42. Little Italy
43. Centre Street
Courthouse District
44. City Hall
45. Trinity Church
46. Wall Street
Stock Exchange
47. World Trade Center
48. Fraunces Tavern
49. Statue of Liberty
50. Staten Island Ferry
51. South Street Seaport

COLUMBIA UNIVERSITY LIBRARIES



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